

Quant:

1. If a number is divided by 24, the remainder is 21, then the number should be divisible by which of the following?

- A. 3**
- B. 4**
- C. 5**
- D. 6**
- E. 7**

2. Given a figure of a trapezoid, inside a rectangle. The trapezoid shared two complete sides of the rectangle... half or more in other side... other side was just joined from the half to the starting point. The sides of the rectangle are given. The question was to find the area of trapezoid?

(Something like this)

3. Given $3x = 4y = 10z$, find the least value of z ?

4. Given a triangle ABD, where $\angle ABD = 90^\circ$, AC is the altitude drawn to the side BD, $\angle ACB = 45^\circ$ and $\angle ADC = 30^\circ$. Given $BC = x$, find the perimeter of the triangle ABD?

5. Given $0.60 > x > 0.70$. Which of the following is greater?

- A. \sqrt{x}**
- B. $1/x$**
- & so on.....**

6. Given numbers -8, 11, -19 If these numbers are squared, find out how many of these numbers are greater by 4 when they are multiple of 5?

(Something like this)

7. Given average of a set: $\{x_1, x_2, x_3, x_4, x_5\}$ as 'S' and average of another set: $\{y_1, y_2, y_3\}$ as 'T', then find the average of $\{x_1, x_2, x_3, x_4, x_5, y_1, y_2, y_3\}$?

- A. $S + T$**
- B. $5S + 3T$**
- C. $(5S + 3T)/8$**
- D. $(S + T)/2$**
- & so on.....**

8. What is the mean of 5 integers (closest to the nearest integer) if the median is 7, mode is 4 and the arithmetic mean of the largest and smallest integer in the series is 20?

- A. 7**
- B. 9**
- C. 11**

D. 13

E. 15

1 a

2 ?????

3 0

4 $[3+(3)^{1/2}]x$

5 ?????

6 ??

7 $(5S+3T)/(S+T)$

8 c

Quant:

1. Given that a line passes through the points (-10,-18), (20, 22) and (x, 2). Find the value of x?

**2. Given that $x < y$ and $r < s < t < u$. Given x, y, r, s, t and u are the variables that have values of increasing order. Find the variable that does NOT come second?
(Something like this)**

3. Given range of a set of numbers 5, 9, 7, -2, x as 12. Find the value of x?

4. Given that there are 10 balls in a bag, 3 red, 2 green and 5 blue. Find the probability of selecting two balls that are green?

**5. Given a circle with center 'O' and two chords are drawn, one is MN and other is TS, where $MN = 4.3$ and $TS = 4.2$. Asked to find which is greatest MT or NS?
(Something like this)**

6. Given that a lady gets an income say 'x' dollars. If she spends some money for her livings, then she is left with 'y' dollars at the end of month.

Col A: $x - y$

Col B: y

7. Given that a certain sum of amount doubles in 10 years. Find its rate of interest?

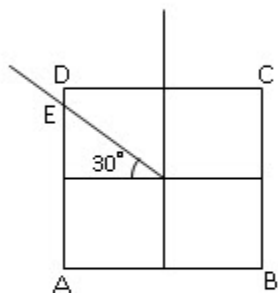
8. Given that $a < b < c$, then

Col A: ab

Col B: bc

Quant:

1.



Given a figure of a square ABCD of side length 8 cm like above. Find the length of AE?

2. Given $a/b = -3$ and $a > 0$.

Col A: b

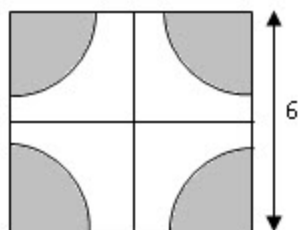
Col B: 0

3. Col A: $0.9999/0.9998$

Col B: $1.0002/1.0001$

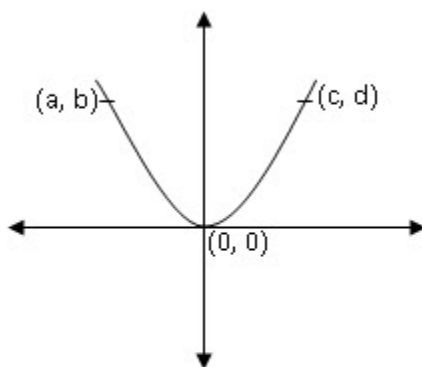
4. There are 20 balls in which some are green and some are red. If the probability of drawing a red ball is 0.8, then what is the probability of getting a green ball?

5.



Given a figure like above with a square and four quarter circles on it, find the area of the shaded region?

6.



Given a figure like above, what is the shortest distance between (c, d) and $(0, 0)$?

(Similar to this)

7. Given the mean of a five number set: {7000, 15000, k, 10000, 12000} as 11000. What is the value of 'k'?

(Similar to this)

8. From the following options, what is the highest two digit odd number divisible by both 5 and 7?

(Some options were given)

9. In a set of numbers 29, 32, 35, 36 and 38, if each number is added by 'k', then for the new set which of the following as to be true?

A. Median increases by K

B. Standard Deviation increases by k

C. Median remains same

D. Standard Deviation remains same

E. Both Median and Standard deviation remains same

(Similar to this)

10. A bus travels at an average speed about 210 miles in 3 ½ hours. How much time will it take to travel the same distance with 60mph speed?

11. Given $P = D \cdot I$. If 'I' is decreased by 20 % then by what percent 'D' should be increased for the 'P' to remains same?

1. $4 + 4/\sqrt{3}$
2. B
3. A
4. 0.2
5. ?
6. $\sqrt{c^2 + d^2}$
7. 11000
8. ?
9. A & D
10. 3.5
11. 25%

Quant:

1. Given that, a line passes through points (-3, -2) (0, a) and (a, 0). What is the slope of a line parallel to the given line?

2. Given area of a rectangle as 'x' and length as 80. What is its perimeter in terms of 'x' if width is 20% of length?
(Similar to this)

3. In a series -8, -3, 5, 8, 3, -5....., if every number in the series is the difference of last two numbers, then
Col A: The number that would first repeat third time is
Col B: 3

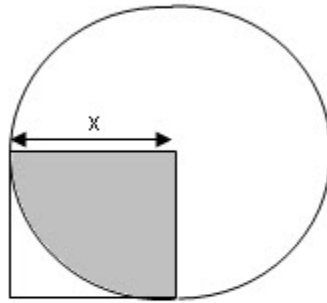
4. Given $x > 1$; x is an integer.
Col A: $(x^x)^x$
Col B: $[(x)^x]^x$

5. Given some number 31345h69. What is the least possible value of 'h' for the number to be divisible by 3?
(Similar to this)

6. Given that a phone call is charged x cents in the first minute and y cents from the second min onwards. How many minutes did a person speak, if his bill is \$4.94?
(Similar to this)

7. Given $|(2x+3)| = 7$.
Col A: The value of x
Col B: 0

8.



Given a figure of a square with a circle on it as shown above and the side length of square is given as 'x'.

Col A: Area of the Shaded region

Col B: $x^2/4$

1. -1
2. $2(80+x/80)$
3. B
4. B
5. 2
6. $(494-x)/y + 1$
7. D
8. A

6-->ans

for n min x charge s min and y charge (n-s) min
charge $x+(n-1)*y$

so it would be $x+(n-1)*y=4.94$ (if x charge
 $(n-1)*y=4.94-1$
 $n-1=(4.94-x)/y$
 $n=(4.94-x/y)+1$

ex--

for 1st min --->\$1

2nd min -->\$.2

then 2min----> $1+.2=1.2$

3min-----> $1+2*.2=1+.4=1.4$

$n=3$

$1*x+(3-1)*y$

thanx for naeemulhassan

i think the 3rd question series starts with an 8 and not -8 acc to the condition specified, so if v calculate the series would be 3,5,8,3,-5,-8,-3,5,8....here 8 is the first repeated number third time so...option A is correct,,,plz do correct if wrong....

8th question solution...from the fig v can infer that the shaded region is greater than half of the square, so area of square is greater than half would always be greater than $X^2/4$...

Quant:

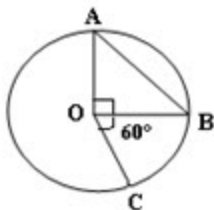
**1 Given $f(x) = |(16x+28y)|$
Col A: Minimum value of $f(x)$
Col B: 4**

2. There is a cube with side 'a', if one of its dimensions is increased by 20%, one is decreased by 20% and the third remains the same. What is the change in volume?

3. Given $x = 2/3$ and $y = 1/3$. What is the value of $(x+y)/((1/x)+(1/y))$?

**4. Given a rectangle of length 'l' and width 'w'. If perimeter of the rectangle is 2.5, then what is its area?
(Something like this)**

5.



Given the radius of the circle as 4

Col A: Area of triangle AOB

Col B: Area of sector BOC

(Similar to this)

1. D
2. $a/25$
3. $2/9$
4. D
5. B

Quant:

1. Let 'S' indicates sum of all even no's from 1 to 100 and 'N' indicates sum of all odd no's from 1 to 100, then

- A. 0**
- B. 99**
- C. 100**
- D. 199**
- E. 200**

(Similar to this)

2. If $x > 1$, then

Col A: $(x^x)^x$

Col B: $x^{(x^x)}$

3. Col A: $2^x (4^x)$

Col B: 2^{3x}

4. Given sets $f_0, f_1, f_2, f_3, \dots, f_9$ which has numbers according to their unit digits for example f_5 has 15, 25, etc. Then, the cubes of the numbers of set f_7 are present in which set?

A. f_2

B. f_3

C. f_5

D. f_7

E. f_9

(Similar to this)

5. Given $f(x) = 4(x^2) + 20x + 25$; x as an integer.

Col A: Minimum value of $f(x)$

Col B: 0

6. If a ball is dropped from a height of 6 miles, the ball will bounce back with 90% of its previous height. What is the height of the ball after 5th bounce?

A. $(6+0.9)^5$

B. $(6+0.9)^6$

C. $6(0.9)^4$

D. $6(0.9)^5$

E. $6(0.9)^4$

7. Given $\text{mod}(2x-3) < 8$; x is an integer. Find the number of possible values of ' x '?

A. 1

B. 2

C. 3

D. 4

E. 5

(Similar to this)

8. A circle is inscribed in a square of length ' x '. Find the area of the circle inscribed in the square?

A. $(\pi x^2) / 2$

B. $(\pi x^2) / 4$

C. (πx^2)

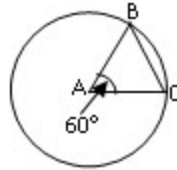
& so on.....

9. Given that there are two parallel lines. P & Q are points on one parallel line and R & S are points on another parallel line. The distance between PQ is same as the distance between RS. If a point 'T' is the mid point of PQ, then

Col A: Distance from T to R

Col B: Distance from T to S

10.



Col A: Area of triangle ABC

Col B: Area of sector

(Similar to this)

11. Two graphs were given with frequencies on y axis and numbers from 1 to 6 on x axis. The question was to check, which of the following were same for both graphs

I. Mean

II. Range

III. Standard Deviation

(Similar to this)

12. If the number of ways arranging a word is 180, then what is the word?

In options, five words were given.

(Something like this)

13. Col A: Number of positive factors of (2 power 3)(5 power 4)(7 power 5)

Col B: Number of positive factors of (11 power 3)(13 power 4)(17 power 5)

14. If $DC6 + 2D = D8C$. What can be the value of D?

A. 0

B. 1

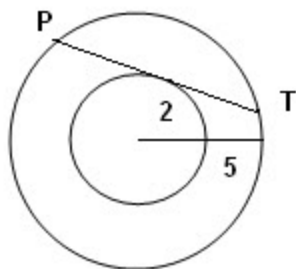
C. 5

D. 8

E. 9

(Similar to this)

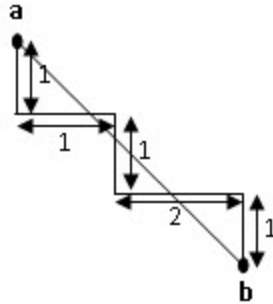
15.



**Given two concentric circles with radius 2 and 5, a tangent is drawn to smaller circle which intersects the larger circle at points 'P' and 'T'. Find the length of PT?
(Similar to this)**

**16. Given $(2)^{-6} < x < (2)^{-5}$
Col A: $4x$
Col B: $1/12$**

17.



What is the distance 'a' and 'b'?
(Similar to this)

18. There are 20 colored pencils in a pencil stand. The probability of choosing a yellow pencil is 0.8. If there are 10 pencils without an eraser, then what is the probability that a yellow pencil chosen is the one with eraser?

A. 1/4

B. 1/2

C. 1/8

& so on....

1. 50 I think.

2. D

3. C

4. B

5. A

6. D

7. 8 I think. [-2---5]

8. B

9. D

10. B if sector means ABC

11. ?

12. ?

- 13. C
- 14. E
- 15. $2\sqrt{21}$
- 16. D
- 17. $\sqrt{18}$
- 18. B

Quant:

1. If $(a)^{-3} + (b)^{-3} = 0$ and ab is not equal to zero, then what is the value of $(a/b)^2$?

2. Col A: The number of ways of forming different groups of 2 kittens each from 8 kittens
Col B: The number of ways of forming different groups of 6 kittens each from 8 kittens

3. Col A: $\sqrt{120} + \sqrt{50}$
Col B: $\sqrt{90} + \sqrt{80}$

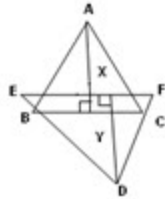
4. Given x is not equal to 0, y is not equal to 0 and xy is not equal to 0.
Col A: $1/(x^3 + y^3)$
Col B: $1/(x + y)^3$

5. Given a line equation $y = ax + b$. If x -intercept is 5 and slope is 2, then
Col A: y -intercept
Col B: -10

6. Given a set of numbers: {10, 11, 12, 15, 15, 15, 17, 19, 20, 20}. If a number 15 is included in the series, the following will change?
A. Mean
B. Median
C. Mode
D. Standard deviation
E. None

7. Given $\text{total}(t) = n * p$. If ' p ' is reduced by 20%, then by what percentage, ' n ' should be increased to balance?

8.



If $x = y$ and $EF \parallel BC$, then

Col A: Area of triangle ABC

Col B: Area of triangle DEF

9. In a set of five consecutive numbers, if the greatest value is $x + 5$, then what is the least value?

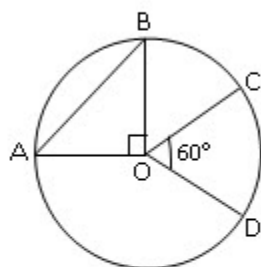
10. Given two concentric circles. The inner circle is a garden of radius 6m and the outer circle which has a path around the garden has a radius 8m. If the width of cement is 0.06, what is the volume of the cement?
(Similar to this)

11. Given statistics of bike sales in a company. In 1992, there is a loss of \$600 and in 1993 there is a profit of \$1200. In 1992, 3 million bikes were sold and in 1993, 4 million bikes were sold, then what is the net profit?

- 1) 1
- 2) b
- 3) a
- 4) D
- 5) C
- 6) i think that mean and standard deviation change pls tell me i am wrong
- 7) 25%
- 8) 😊 b
- 9) x
- 10)

Quant:

1.



Col A: Area of arc COD

Col B: Area of triangle AOB

2. Find the total number of 4-digit **odd integers** greater than 1000 which have 6 in their hundredth place?

3. Given $x((75+y) + (75-y)) = 900$.

Col A: xy

Col B: 100

4. Which of the following cannot be expressed as the sum of three consecutive integers?

A. 0

B. 1

C. 2

D. 3

E. 5

5. Given $a < 0 < b < c$

Col A: ac/b

Col B: ac

6. If $2^{(2x+1)} - 2^{2x} = 2^{1000}$, then what is the value of x ?

7. Col A: $(x^x)^x$

Col B: $x^{(x^x)}$

8. How many numbers among nine consecutive positive numbers are divisible by 9?

9. Given a set of numbers: $\{1/2, 1/8, 2, 8\}$

Col A: Median of the set

Col B: Mean of the set

10. There are 10 set of numbers. Each set contains numbers whose unit's digit represent the set number. For the set number is 1, the numbers in it are 21, 31, 51, and so on.. If the set number is 5 the numbers are 55. So, if we take the cube of the numbers in set 7, then it represents which of the following set?

- A. 3
- B. 4
- C. 5
- D. 6
- E. 7

11. Given that two points (0, 2) and (2, 0) lie on the circle.

Col A: Radius of the circle

Col B: 2

12. If $x^2 + y^2 = 2xy$, then

Col A: x

Col B: y

13. Given a set of three numbers $\{x, x^2, x^3\}$; $-1 < x < 0$. What is the ascending order of the set?

14. Given $7 < xy < 13$, where x and y are positive integers. Find the total number of different possible values

- 1. A
- 2. 450 $[9*1*10*5]$
- 3. D
- 4. $[1 \ 2 \ 5] \rightarrow (x+1) + x + (x-1) = 3x$ where $x=INT$
- 5. D
- 6. 500
- 7. D
- 8. 1
- 9. B
- 10. A
- 11. C
- 12. C
- 13. $x \ x^3 \ x^2$
- 14. 5 $[8 \dots 12]$

Can someone explain how 11th is C .. ?

the way i thought is..

assume center as (x,y) .

so dt of (x,y) from $(2,0)$ = dt of (x,y) from $(0,2)$

$(x-2)^2 + (y)^2 = x^2 + (y-2)^2$,
we get $x=y$..

so checking with $(1,1)$ $(2,2)$ $(3,3)$ as centers, radius will be $\sqrt{2}, 2, \sqrt{10}$.

plz correct if i m wrong ..!

i think the answer for 11th question is not 5..

xy can be 8,9,10,11,12

$1*8, 2*4, 4*2, 8*1=8$

$1*9, 9*1, 3*3=9$

$1*10, 10*1, 2*5, 5*2=10$

$1*11, 11*1=11$

$1*12, 12*1, 2*6, 6*2=12$

so possible distinct values for X and Y among the above can be

1,2,3,4,5,6,8,9,10,11,12

so total is 11..

answer is 11

Quant:

1. Given $(x^2 + y^2) / 2 = xy$.

Col A: x

Col B: y

2. If x and y are integers and $7 < xy < 13$, then how many possible values of xy are present?

3. If $(n, k) = n! / (k!(n-k)!)$

Col A: (16, 3)

Col B: (16, 14)

4. Imagine a **parabola** intersecting Y-axis at some point (not **passing through** origin as given in the Decem question). One point is given on parabola (3, b), equation of the parabola is given. What is the **distance be** point and the point where the parabola intersects Y axis?

5. Given that 'S' indicates sum of first 100 positive even numbers and 'N' indicates sum of first 100 positive then S-N equals to

A. 0

B. 99

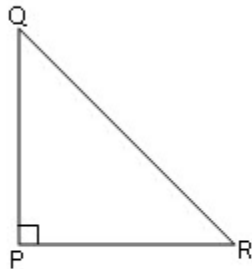
C. 100

- D. 199
- E. 200

6. The term $\sqrt{0.3}$ is nearly equal to

- A. $(3/10)^2$
- B. $[3/(10)^2]^2$
- C. $(3/10)^3$
- & so on.....

7.



In right **angle** triangle PQR, if angle Q is 12 less than twice the angle R, then what is angle Q?

8. Col A: The remainder when $(121)^6$ is divided by 10

Col B: The remainder when $(121,121)^{23}$ is divided by 10

9. In a rectangular **coordinate system**, if two points (2, 0) and (0, 2) lie on the circle whose centre is origin

Col A: Radius of the circle

Col B: 2

(Similar to this)

10. Given a set of five numbers: {128, 168, 170, 180, 215}. If one number is increased by 120 and one number is decreased by 120 in the set, then

Col A: **Standard Deviation** of initial(before change) set

Col B: Standard Deviation of final(after change) set
(something like this)

hi frenz

- 1.C
- 2.4
- 3.A
- 4.???
- 5.100
- 6.NOT AMONG THE GIVEN
- 7.56
- 8.C
- 9.C
- 10.D

Hi 'nagthedestroyer' brother,

Actually I am from Bangladesh and know very little Hindi/Urdu. 😊

Here 2's answer is 5. Because, 8,9,10,11,12 all are integers which can be shown as xy . 11 can be written as $11*1$.

But, today in my exam, the question was 'x and y are integer greater than 1.'
For this reason, I gave 4. Hope I am clear now.

I got almost 5-6 questions common in [MATH](#) from December database. Sorry, can not remember the verbal parts. But words were easy. All from Barrons except the word 'Barrel'.

5----->

$(2 - 1) = 1$
 $(4 - 3) = 1$
 $(6 - 5) = 1$
...
...
...
 $(198 - 197) = 1$
 $(200 - 199) = 1$

Total sum = 100

So the answer is 100.

8----->

$121/10 \rightarrow$ remainder 1. As there is 121^6 , so $(1*1*1*1*1*1)/10$ remainder is 1.

On the other hand, $121,121 = 121000 + 121 = 121000 + 120 + 1$. So, $121,121/10$ is also remainder 1. So, $(1*1*1*1*1*1)$ which is $(1)^{23}/10$ is also remainder 1

7.) angle $p+q+r=180$
 given $q=2r-12$ and $p=90$
 so $90+2r-12+r=180$
 so $r=102/3=34$
 $q=2(34)-12=56...$

10.)The numbers from which the 120 is being subtracted and is being added r not given so v cant calculate it so "d".. hope it helps

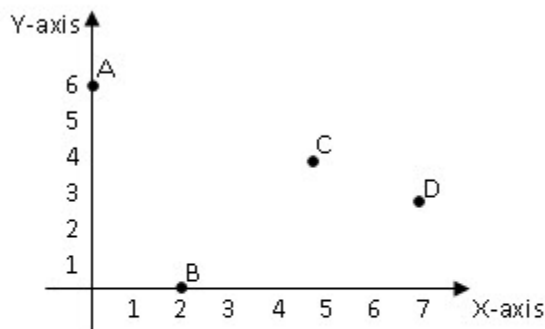
Quant:

1. Given $N = (81)^{56}$ and $P = (96)^{43}$

Col A: Digit in units place of $(N+P)$

Col B: Digit in units place of $(N)*(P)$

2.



If the slope of line **joining** any points in the above graph is $-1/3$, then joining which two points will give the

A. **A and B**

B. A and C

C. B and C

D. **C and D**

& so on.....

(Similar to this)

3. Given $7 < xy < 13$; x and y are greater than 1. Find how many xy values are possible?

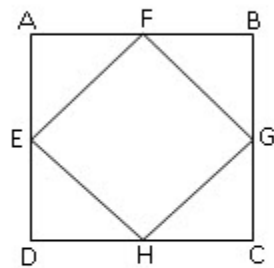
4. Given a series -8, -3, 5, 8, 3, -5.....

Col A: The first number that repeats third time

Col B: 3

5. If $\text{mod}(x - 3) < 8$, then find the number of possible values of x ?

6.

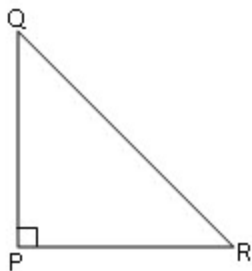


Given that ABCD is Red wire and EFGH which are the midpoints of AD, AB, BC and CD is a blue wire.

Col A: Length of Red wire

Col B: Length of Blue wire

7.



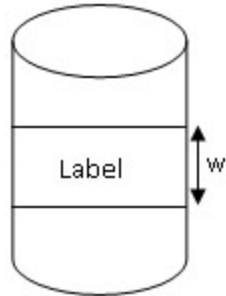
If angle Q is 12 difference of twice the angle R, then what is angle Q?

8. Given 5 different values. One value is increased by 120 and one value is decreased by 120.

Col A: Standard Deviation before change

Col B: Standard Deviation after change

9.



Given a figure of cylinder like above with a label of width 'w' on it. If the base radius of the cylinder is 10 and label is equal to area of the base, then

Col A: w

Col B: $3\frac{1}{2}$

(Similar to this)

10. If the tens digit of a number 'x' is 7 and tens digit of a number 'y' is 8, then

Col A: Unit digit of 'x' + Unit digit of 'y'

Col B: 5

11. Given $x < y < z$.

Col A: $z - x$

Col B: $y - x$

12. Given 'y' is the cost of an article. If the cost of the article increases by 'x%' every year from 1945 to 1990, what is its cost after 45 years?

A. $x \{1 + (y/100)\}^{45}$

B. $y \{1 + (x/100)\}^{45}$

C. $y \{1 + (45x/100)\}$

& so on.....

And Previous [Database](#) Questions Appeared.

1. A
2. A
3. 4
4. B

5. 15

6. A

7. 56

8. D

9. A

10. D

11. A

12. B

correct me if any wrong

y.rajasekhar

2) can u explain how can we get slope $-1/3$

11) $x < y < z$

the range of x, y, z is not mentioned, so we can take -ve integers also

if x, y, z are positive integers then $z - x > y - x$

if x is -ve integer then $z - x < y - x$.

So, answer for this question is D.

11...

if we consider 3, 4, 5

$z - x > y - x$...

and if we consider

-5, -4, -3

then also $z - x > y - x$

plz correct me if wrong.....

yes for 11th qus A is the correct option.....i made a check of lot of -ve n +ve combinations.....

Quant:

1. Given $|2x + 3| = 7$

Col A: x

Col B: 2

2. Given $7 < xy < 13$; where x, y are integers. Find the number of solutions of xy ?

3. Col A: $(121)^2$

Col B: $(121, 121)^2$

4. Which of the following is greater?

A. $(0.3)^2$

B. $3/(10)^2$

C. $3/(10)^3$
& so on.....

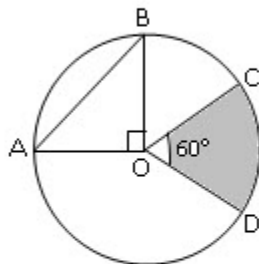
5. In a series of consecutive even integers, if the greatest integer is $x + 5$, then what is the lowest integer?

6. Given a series a_1, a_2, \dots, a_n . If $a_1 = 1/2$, $a_k = (\text{some value})$ and $a_n = (n / n + 1) * a_{(n-1)}$, then
Col A: k
Col B: $-1/5$
(Here 1, 2, k , $n-1$, n , k are suffixes).

7. If the number of ways of arranging the letters of a word is 180, then what is the word?
A. Letters
& four more options were given.

8. Given an equation $x^2 - x + 1 \leq 0$. Find the number of possible values of x ?

9.



Col A: Area of the triangle AOB
Col B: Area of the shaded region

10. Given an equation $3x + 2y + z = 42$; where x, y, z are positive integers.
Col A: $x + y + z$
Col B: 18

11. Col A: $(-2)^5$

Col B: -1

12. What is the square root of 0.1?

13. Given $(2)^x * (2)^y = 8$.

Col A: x

Col B: y

14. Given a right angled triangle with hypotenuse 3 and other two sides as $\sqrt{5-4a}$ and $\sqrt{5a + 4}$. The value of $3a = ?$

(Similar to this)

15. There are 10 sets of numbers. Each set contains numbers whose unit's digit represent the set number. For example, if the set number is 1, the numbers in it are 21, 31, 51, and so on.. If the set number is 5 the numbers are 55, 65, 75, 85, 95, and so on. So, if we take the cube of the numbers in set 7, then it represents which of the following set?

A. 3

B. 4

C. 5

D. 6

E. 7

(Similar to this)

And many previous database questions appeared.

1. D
2. 20
3. 0
4. A
5. D
6. ??
7. ??
8. Not any?
9. B
10. D
11. B
12. .3.....
13. D
14. 0
15. A

1- D Because $x = +2$ or $x = -2$

2- 5 since x and y are integers then $xy = 8, 9, 10, 11, \text{ or } 12$

3- B

4- A

5- $x+1$ for example: $x = 10$, then $x+5 = 15$ then a series is 11,12,13,14,15 that the lowest number is 11 which

5 ans

given conseq 5 even integers

so

$$2n, 2n+2, 2n+4, 2n+6, 2n+8$$

greatest interger is equals to $x+3$

$$\text{so } 2n+8=x+3$$

$$2n=x-3$$

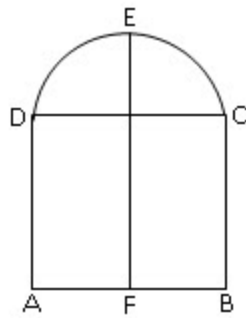
so least interger is $x-3$ becoz $2n$ is the least interger

Quant:

1. Given $x = 1/2$ and $y = 1/3$. What is the value of $xy/(x + y)$?

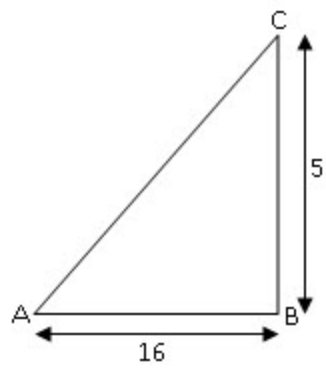
2. Given an equation $y = ax + b$ with slope 5 and x-intercept 2. Find the y-intercept?

3.



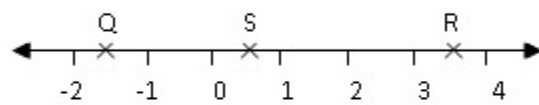
Given that the line EF bisects the base AB of the square ABCD whose side length is ' x ', find the length of DE

4.



If a point 'S' is on the base AB, then what is the probability that length of SC is 13?

5.



Col A: QS
Col B: SR

6. Given $(x + y)^2 - (x - y)^2 = x^2 + 2xy + y^2$, then

Col A: x

Col B: y

7. If $\sqrt{x} \cdot \sqrt{y} = \sqrt{x + y}$, then what is the value of x in terms of ' y '?

8. Given P1 and P2 working together completes a work in 8 hours. If P3 alone completes the work in 12 hours, how much **time** it would take for the three to complete the work?

9. Given that ' x ' is a negative integer.

Col A: $(-x)^{3x}$

Col B: $(-x)^{(3x+1)}$

1. $1/5$

2. -10

3. ?

4. ?

5. D

6. C

7. $y/y-1$

8. $24/5$

9. D

4 ans--->

given base length 16

s is a point on the base

the probability of s to become 13

bc =5 sb=12 then sc=13

so 12

given length of the square is x so dc=x

half of dc is the radius of semi circle

so radius is $x/2$

circumference of semi circle is $\pi \cdot r$

so $\pi \cdot x/2$

but asked length of dec so circumference-(minus) dc length

$$\pi x/2 - x$$

i think this will [help](#)

Quant:

1. Given $x < y < z$; where x, y, z are sides of a cuboid.

Col A: Volume of cuboid with edges $x+10, y, z$

Col B: Volume of cuboid with edges $x, y, z+10$

2. Given an equation $x^2 - x - 6 = 0$. How many integer values satisfy the equation?

3. Given a set of five consecutive even numbers. If the highest value of the set is $x + 5$, then what is the least value of the set?

4. Col A: $[(x)^x]^x$

Col B: $x^{(x^x)}$

5. Given five scores of a person 257, 450, 550, 850 and 1020. If two scores are wrongly reported by person, one with 120 increase and other with 120 decrease, then

Col A: Standard deviation of initial set

Col B: Standard deviation of set after change.

6. Given that a number ' x ' when divided by 7 gives remainder '3'. If the number ' $2x$ ' is divided by 7, then what is the remainder?

7. Given dimensions of a cuboid as $12 \times 7 \times 4$. What is the least volume of the cube that could be formed using the dimensions of the cuboid?

8. Given $f(n, r) = n!/(n - r)! * r!$

Col A: $f(16, 3)$

Col B: $f(16, 4)$

9. If $y < x < -y$

Col A: y^2

Col B: x^2

10. In a survey, it was found that 10% of the students who are susceptible to disease are less than 20 years of age. 60% of the students who are susceptible to disease are more than or equal to 20 years of age. What is the percentage of the students (whose age is more than or equal to 20 years) are not susceptible to disease?

11. If $-1 < x < 0$, then what would be the increasing order of the set: $\{x, x^2, x^3\}$?

1. A

2. 2

3. 3

4. D
5. C
6. 6
7. 1(I have consider this as 1 X 1 X 1 (Minimum volumn)
8. B
9. Seems to be Wrong , How ($y < x < -y$)
- 10 . Insufficient Data
- 11 x^2, x^3, x

Let me Correct if I am wrong in this solution.

-Pankesh

if $x=1, y=2, z=3$
then A is great
if $x=3, y=2, z=1$
then B is great

so ans is D

- 1.D
- 2.2
3. $x-3$
- 4.D
- 5.D
- 6.6
7. $4*4*4$
- 8.B
- 9.A
- 10.???
11. $x^3 x^2 x$

he dint mention x, y are positive...

so consider $x=-3, y=-5$ then $-y=5$

this satisfies $y, x, -y$
then $y^2 > x^2$..

help me if i am wrong

for 3 question.... given highest value is $X+5$..

then the least value is X ...

eg.... $x=0$, then set $\{1, 2, 3, 4, 5\}$

highest value is $X+5$... so the least value is X ..

help me if its wrong

10.

consider totally 100 members... it will help in percentage calculations.

10% are under 20 years.. that is 10 members..

we r left with 90 members.. among them 60% is 54 members.. so totally 64 members..

remaining are 36 members.

so the answer may be 36%

the answer for Q.1 is A

since $x < y < z$, so let $x = 1, y = 2, z = 3$

give volume would become $(11)(2)(3) = 66$

and expression for 2nd volume would become $(1)(2)(13) = 26$

Thus answer is A

2. **Given a set of five consecutive even numbers. If the highest value of the set is $x + 5$, then what is the value of the lowest value of the set?**

5 consecutive EVEN number can be go like this -

$\{-4 -2 0 2 4\}$ Or $\{-8 -6 -4 -2 0\}$ Or $\{0 2 4 6 8\}$ Or $\{2 4 6 8 10\}$ or so many like this

If the ques ask for the set of even numbers greater than 0 then Ans is: 2

If the ques ask for the set of even numbers ≥ 0 then Ans is: 0

If the ques ask for the set of even numbers ≤ 0 then Ans is: -8

But as here nothing is mentioned so ans is "insufficient data" Or to select the best options from the ans set

Another thing... here the ques ask to find the value of the set ... not the value of x i think

Correct me if i am wrong....

Try and Fail but dont Fail to Try

Quant:

1. Given $xyz = \text{odd integer}$, then which of the following is even?

I. $x(y + z)$ II. $xy + z$ III. $yz + x$

A. Only I

B. Only II

C. Only I and II

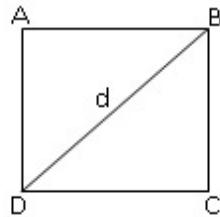
D. Only III

& so on.....

2. Col A: $|-2.4| + |4.8|$

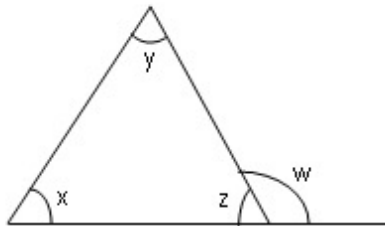
Col B: 2

3.



As shown, if 'd' is the diagonal of the square ABCD, then find the area of the square?

4.



Col A: $y + z$

Col B: w

5. The discount on a certain **product** is $x\%$ in June and it is followed by another discount of $x\%$ in July. If the price is 81% of the original price, then

Col A: x

Col B: 10%

(Similar to this)

6. Given the **standard deviation** of set of three numbers $w + 6$, $s + 6$ and $p + 6$ as ' k ', then what will be the standard deviation of set w , s and p ?

(Similar to this)

1) all are even

2) A

3) $(d^2)/2$

4) D

5) C

6) K

Quant:

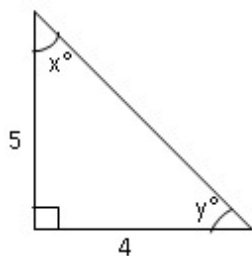
1. Given that there are 3 **class** rooms with x boys, y **girls in** one class, x boys, z **girls** in one class and x boys, z **girls** in one class. Find how many girls are there in each class?

2. Given $0.01786 < x < 0.01896$, then

Col A: The thousandth place of x

Col B: 8

3.



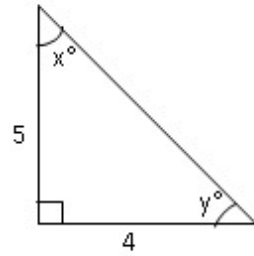
Given area of square PQRS as 16. If RS is 175% and SZ is 25%, then find the area of the triangle?
(Something like this)

4. Given $2^{(x - y)} = 1/64$.

Col A: $x + y$

Col B: Some value

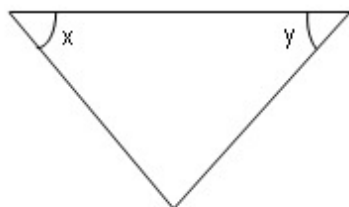
5.



Col A: x
Col B: y

6. If the arithmetic mean of set: $\{10, 20, x\}$ is equal to median of set, then find the value of x ?

7.



Col A: x

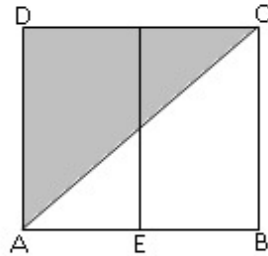
Col B: y

8. If $5x^2 + 2x + 7 = 5x^2 + 9$, then find the value of x ?

9. Given the original **price** of furniture as \$54.00. Because the manager of the furniture store thought he could get more money for the furniture, he increased the price of the furniture to 10% of its original price. After a week, the furniture was not sold, so the manager then discounted the price by 8% and the furniture was finally sold. At what price was the furniture sold?

(Similar to this)

10.



Given a figure of a square ABCD like above. 'E' is the midpoint of AB. If the area of the square is 24, find the shaded region?

11. What is the ratio of $\frac{1}{3}$ to $\frac{3}{8}$?

- 1) not enough info
- 2) $D \times = .01796$ or $.01886$
- 3) not enough info
- 4) $x - y = -6$, other than don't know how to complete it
- 5) B
- 6) $x = 30$ or 15 depending on order of set
- 7) D
- 8) $x = 1$
- 9) 54.648
- 10) $\text{area} = 24 \times \sqrt{2}$
- 11) $\frac{8}{9}$

Quant:

1. Which of the following is greater?

A. $\frac{1}{(30)^2} + 1$

B. $\frac{1}{(30)^2} - 2$

C. $\frac{1}{(30)^3} + 1$

& so on.....

(Similar to this)

2. Given $2 > a > 3 > b > 4$.

Col A: ab/c

Col B: c

3. Col A: $|10^{-3}|$

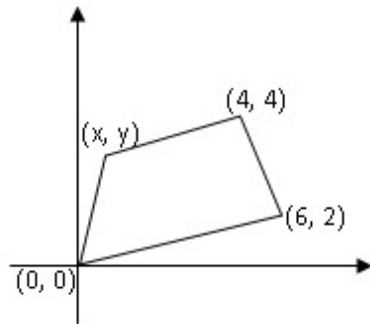
Col B: $10^{(-3)}$

4. Given $w > 0$ and $z > 0$

Col A: $w^4 + z^3$

Col B: $w^2 + z$

5. Given a figure like below.



Find the value of $x + y$?

(Similar to this)

6. Given a series $1, -3, 5, -7, 9, \dots$ and $t_n = [(-1)^{(n-1)}] * (2n - 1)$. Find the sum of first 25 terms?

7. Given $x > 2$ and $y > 2$.

Col A: xy

Col B: 24

8. Col A: Area of three non-touching circles of radius 1 each

Col B: 3π

9. In company, 25% of the **members** work in receiving calls. If the average of the calls is 3.67, then

Col A: The number of people who work in receiving calls

Col B: 2

(Similar to this)

10. A company manufactures 2000 toys. If $\frac{3}{4}$ th of the toys are donated and $\frac{3}{40}$ th of the toys are sold, t

Col A: The number of toys that are stored

Col B: 3,250

(Similar to this)

11. Col A: $0.07 + 0.06 + 0.05 + 0.04 + 0.03 + 0.02 + 0.01$

Col B: $0.07 * 0.06 * 0.05 * 0.04 * 0.03 * 0.02 * 0.01$

12. Given roots of an equation as -1 and $\frac{1}{2}$, which of the following equations have the same roots?

A. $2x^2 + x - 1$

B. $2x^3 + x^2 + 1$

C. $x^2 + x + 1$

& Two more options are given.

13. Given area of a parallelogram and asked to find the diagonal length?

14. Given $2^{(2x + 1)} - 2^{2x} = 2^{1000}$. Find the value of x?

15. Col A: $17.3 * 3.1$

Col B: $(17 * 3.1) + (1.3 * 3.1)$

1)a

2)? where s c to solve...ans will be d if it is the same q

3)c

4)d

5)oops i donno...data in sufficient

6)25

7)d

😊c

9)not clear ?

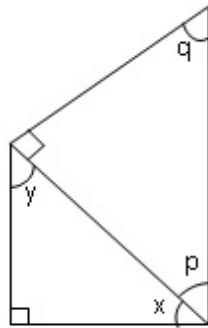
correct me if iam wrong...i have my exam on 16th could some one [help](#) me in these probs...if i am wrong some where

Quant:

1. Given a sequence -9, 10, -11, 12, -13, 14..... If the nth term of the sequence is $(-1)^n * (2n - 1)$, then sum of first 27 numbers?

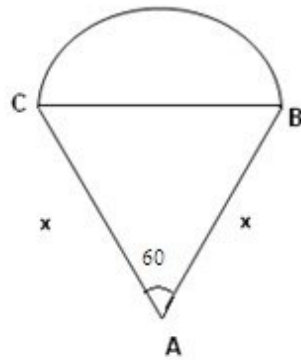
2. Given two sets $A = \{9, 8, 10, 11\}$ and set $B = \{14, 15, 18, 19, 20\}$. If a new set C is formed from the sur 'B', then how many distinct values are possible in set C?

3. Given a figure like below.



- I. $x - p = q - y$
- II. $x + p = 90^\circ$
- III. $y = q$
- A. Only I
- B. Only II
- C. I and III
- & so on.....
- (**Similar** to this)

4.



A semicircle is drawn on a triangle as shown in the figure. If the circumference of circle is 16π , then

Col A: The area of triangle ABC

Col B: 25

(Similar to this)

5. Given that a person A can sow his field in 12 days and person B can sow his field in 13 days. If they work together, how many days they can complete the work?

(Similar to this)

6. A committee of 9 members is to be formed from a group of 25 members with 16 females and 9 males. Find the number of ways of forming a committee, such that 4 females are always to be included?

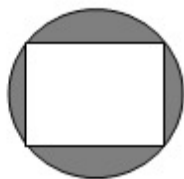
(Similar to this)

7. Col A: $\frac{1}{(0.02)^{-1}} + \frac{1}{(0.04)^{-1}}$

Col B: $[0.02 + 0.04]^{-1}$

8. Given $\frac{(x+1)/x}{(x+1)} = 99$, find the value of $\frac{(x-1)/x}{(x-1)}$?

9.

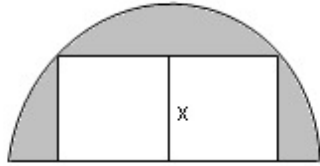


If the area of the circle is $16n$, find the area of the shaded region?

10. Given vertices of a triangle as $(4, 3)$, $(0, 0)$ and $(8, 0)$. Find the perimeter of the triangle?

11. If a sum of money triples itself in 10 years, then by how many years it becomes 4 times?

12. Given a figure like below.



If 'x' is the height of the rectangle, then

Col A: Area of the rectangle

Col B: Area of the shaded region

(Similar to this)

1)-22

addn of 1st 26 elements is $13 + (-35)$

2)9

3)a

4)a

5) $156/25$ i.e 6/25days

6) $16C4 \times 9C5 + 16C5 \times 9C4 + 16C6 \times 9C3 + 16C7 \times 9C2 + 16C8 \times 9C1 + 16C9$

at least 4 females always included

7)b

8)99

9)????

10)18

11)15

12)????

for 1 st question

$sn = n/2[a+l]$

$a = -9, l = (-1)^{27}((2(27)-1))$

$= -53$

$sn = 27/2[-9 + -53]$

$= 13.5 * -60$

any body tell am i right or not? if not plz explain clearly...

Quant:

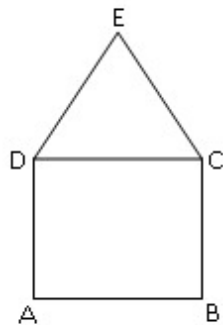
1. Col A: The remainder when $(7^0 + 7^1 + 7^2 + \dots + 7^{19}) / 14$
Col B: 7

2. Which CANNOT be the factor of $(2^n) * (3^k)$, where n and k are both positive integers?
A. 8
B. 24
C. 42
& so on.....

3. Given $f(n) = [((-1)^n) * c * n]$, where 'c' is the cost. If $f(1)$, $f(2)$ and $f(3)$ are the similar functions and the difference between the largest and smallest among $f(1)$, $f(2)$ and $f(3)$ is 20, then
Col A: $f(4)$
Col B: 16
(Similar to this)

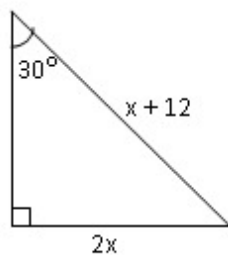
4. Given that there are 10 numbers in a sequence starting with 5, the rest are obtained by doubling the previous number and subtracting 3. What is the 4th number?
(Similar to this)

5.



Given area of the triangle DEC as 10 and side of square as 10. Find AE length?
(Similar to this)

6.

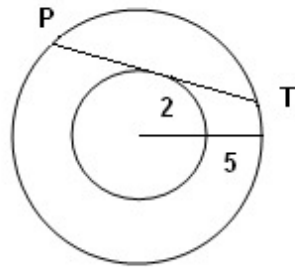


What is the value of x ?
(Similar to this)

7. Col A: Average of a **list** of numbers
Col B: Median of a list of numbers

8. By selling two **articles** for Rs. X each a shopkeeper gains 30% on one and loses 30% on the other, find percentage?
(Similar to this)

9.



What is the length of segment 'PT'?
(Similar to this)

10. Given $S_1: \{10, 15, 20, 25, 30\}$ and $S_2 = \{15, 20, 25, 30, 35\}$.

I. Mean of S_1 and S_2 is same.

II. If S_1 is divided by 5 and S_2 is divided by 5, then the mean of S_1 and S_2 is same.

III. xxxxx

A. Only I

B. Only II

C. I and II

& so on.....

(Something like this)

Quant:

1. A circle is inscribed in a square, which is inscribed in another circle. Find the ratio of areas of smaller circle to larger circle?

2. Given a point on the x-axis $(-k, 0)$ at point 'R' and another point S $(m, 0)$ on x-axis which is not shown in the diagram. If $RS = k^4$, then

Col A: m

Col B: 0

3. Given the age of a person 'X' as four times the age of his son. After ten years, if the age of X is twice the age of his son, then what is the present age of his son?

(Similar to this)

4. Given that two cyclists are moving towards each other at speed of 20 miles/hour and they are about 100 miles apart, how long will it take for them to meet?

this instance a fly starts from one cyclist and move towards other and moves to and fro till the two cyclists meet. If the fly is moving at 30 miles/hour, what is the total distance covered by the fly?
(Similar to this)

5. A certain sum of amount P, increases at r% from 1990 to 1995 and 1995 to 2000. If the total amount is 2P at the end of 2 terms, then what is the rate of interest?
(Similar to this)

6. If $x < y < z$, then
Col A: xy
Col B: yz

7. When a number is divided by 12, the remainder is 5. What is the remainder when the square of that number is divided by 12?
(Similar to this)

1---> $1/\sqrt{2}$
2---> D
3---> 5
4---> 75
5---> 16.5 (i am not sure)
6---> D
7---> 1

1---> ans

given a circle inscribed in a square

and the square is inscribed in another circle

so radius of first circle is x ie length of the square

and radius of another circle is diagonal (hypotenuse) of the square so $x\sqrt{2}$

so ratio of areas is $\pi x^2 / \pi (x\sqrt{2})^2$

$x / (x\sqrt{2})$
 $1/\sqrt{2}$

5---> ans

given principle amount p
rate is r
time is 10 yrs
and $s = 7/5p$

$(7/5)p = (p * 10 * r / 100)$
on solving we get $r = 16.5$ i am not sure becoz whether t is 10 or 2

Quant:

1. If $4y - 1 > 9$, then

Col A: y

Col B: 3

2. Col A: 0.2% of 4

Col B: $1/500$ of 4

3. A square is formed by joining midpoints of another square as shown in figure. If the perimeter of larger

Col A: Perimeter of smaller square

Col B: $X/2$

(Similar to this)

4. Given that in a pack of plates, $1/3$ plates are damaged, $2/3$ plates are cracked and $1/3$ of them are damaged and cracked. If 80 are not hampered, then what is the number of total plates?

(Similar to this)

5. In a set of numbers from 1 to 10. If two numbers are to be selected from these 10 numbers with replacement, what is the probability that at least one of them is even?

(similar to this)

6. Given 'd' as the standard deviation of set: { x, y, z }, then

Col A: The standard deviation of $x + 2, y + 2$ and $z + 2$

Col B: $d + 2$

1. D

2. C

3. A

4. 180

5. $5/9$

6. B

Consider there are "x " number of total plates .

As $1/3$ plates are damaged -- $\rightarrow x/3$ damaged plates

As $2/3$ plates are cracked ----? $2/3(x)$ cracked plates

As $1/3$ plates are cracked and Damaged -- $\rightarrow 1/3(x)$

so , $x/3 + 2/3(x) - x/3 = 2/3(x)$ plates are either damaged or cracked

thus $80 + 2/3(x) = x$

$X = 240$ (Total Number of plates)

-Pankesh

Correct me if I am wrong .

According to me Ans for 5th question is $1/4$.

coz two numbers to b selected with replacement.

$$(5c1 * 5c1) / (10c1 * 10c1).$$

5- even

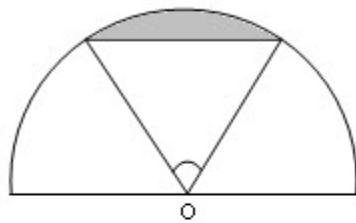
5-odd.

Correct me if i m wrong..

Quant:

**1. Given that there are three couples, who are to be arranged in 6 seats. Find how many ways they can be that husband and wife sit together?
(Similar to this)**

2.



**Given a figure of semicircle like above with the radius of circle given and the angle of the sector is also given. Find the area of the shaded region?
(Similar to this)**

3. A person 'X' sells his TV set to another person 'Y' at a loss of 15%, but 'Y' sells it to another person 'Z' at a profit of 20%. If 'Z' pays \$9350 to 'Y', then

Col A: The amount 'Y' pays to 'X'

Col B: 8500

(Similar to this)

4. Given few numbers like 2, 5, 6, 7, 9. Find the number of ways of arranging a five digit even number from these numbers.

numbers?

5. In how many ways, 7 gents and 4 ladies can be arranged circularly in a meeting?

6. Given $1 < x < 2 < y < 3 < z < 4$

Col A: $x + y + z$

Col B: some value (xx)

7. Given that there are two light poles, one pole is having bulb A and another is having bulb B such that the first pole is 100 ft height. If the distance between two poles is 30 ft, then find the distance between the second pole and the ground.

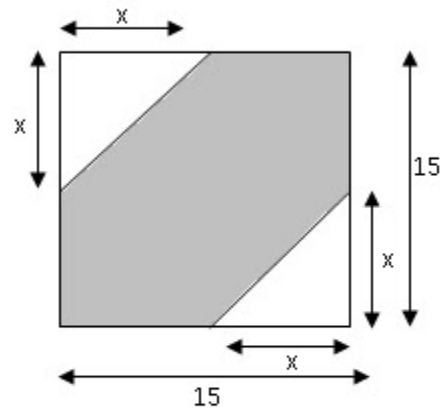
8. Given a sequence like $x, w, y, z, 0, 1, 1, 2, 3$. Find the value of x ?

9. Col A: $(10)^{-2}$

Col B: 0

10. From the set of numbers: $\{1, 2, 3, 4, 5, 6\}$, how many different sums can be formed by summing up any two numbers from the set?

11.



Given a figure of a square like above. Find the area of the shaded region?

1---> $6p^3$

2---> $((\theta/360)*\pi*r^2)-1/2(r^2\sin(\theta/2))$

3---> c

4---> $2*4!$

5---> $10!$

6---> $?$

7---> 50

8---> $-3y$

9---> a

10---> $6c^2$

$$11 \rightarrow 225 - x^2$$

Quant:

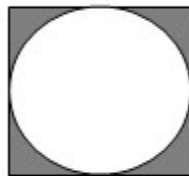
1. Given $x = [\sqrt{200} - \sqrt{8}] / \sqrt{2}$

Col A: x

Col B: 8

2. Given perimeter of a circle as 'pie' and area as $3 \cdot \text{pie} / 2$. Find the radius of the circle?

3.



Given a figure like above. If the area of the shaded region is 1, then find radius of circle?

4. Given two sets $S = \{2, 4, 6\}$ and $T = \{2, 4, 6, 8, 10, 12\}$. If M is a new set, such that ' S ' is subset of ' M ' and ' T ', then find how many values can set M have?

5. Given xy not equal to 0 and x not equal to y . If $x/y = y/x$, then

Col A: $x + y$

Col B: 0

6. Given $31345x69$ is divisible by 3. Find the least possible value of x ?

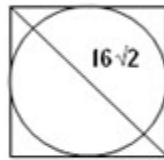
7. Given that a solution contains $33 \frac{1}{2}$ percent of alcohol, $12 \frac{1}{2}$ salt and rest water. What is the ratio of alcohol to water?

8. Given $ab = b+1$ and $a(b + c) = ab + c$.

Col A: c

Col B: $a/(b+1)$

9.



Given length of the diagonal of the square as $16\sqrt{2}$, then find the radius of the circle?

10. Given GCM and LCM of 'k' and 'n' are given. Calculate 'n' when 'k' is also given?
(Something like this)

11. $1/2$ is what percent of $2/3$?

12. Given $x^2 + y^2 = 2xy$

Col A: x

Col B: y

13. Given a rectangle of length L and width is 20% of length. If the area of the rectangle is ' x ', then find its terms of x ?

14. Given $f(x) = 4x^2 + 20x + 25$, where x is an integer.

Col A: Minimum value of $f(x)$

Col B: 0

15. A ball is dropped from height of 6 meters and ball bounce back not more than 90% of height. Find the

bounce?

16. If $|2x - 3| = 7$. Find the possibilities of x ?

- 1)C
- 2)DATA NOT CLEAR
- 3) $\sqrt{7/6}$
- 4)4 or 5
- 5)c
- 6)2
- 7)67:25:108
- 8)?????
- 9)2
- 10) $GCM * LCM / K$
- 11)75%
- 12)C
- 13) $12 * \sqrt{x/5}$
- 14)A
- 15) $6 * (0.9^5) = 3.54$
- 16)5 and -2

I think solution should be this way :

$(16 * \sqrt{2})^2 = (x)^2 + (x)^2$. (I am considering x as one side of the Square).

$$\Rightarrow 16 * 16 * 2 = 2 * x^2$$

$$\Rightarrow 16 * 16 = x^2$$

$$\Rightarrow 16 = x \text{ (One side of the square)}$$

So the radius is $16/2 = 8$.

Quant:

1. Given $x = 10^{20} + 1$.

Col A: The remainder when 'x' is divided by 11

Col B: 2

2. Given a figure of a cube with one side midpoint **joined to the other corners thus forming a rectangle. Find rectangle, if the side length of the cube is 1?**

3. Given that three machines x, y, z take 4hrs, 6hrs, 8hrs respectively to print equal number of pages. What of total work, the machine can do with **maximum speed?**

4. If $0 < r < t$, then

Col A: $r + rt^2$

Col B: 1

5. Given n is an integer, such that $\langle n \rangle = (-1)^n$

I. $\langle a + b \rangle = \langle a \rangle + \langle b \rangle$

II. $\langle a * b \rangle = \langle a \rangle * \langle b \rangle$

III. $\langle a + b \rangle = \langle a \rangle * \langle b \rangle$

A. I only

B. II only

C. I and III only
D. I, II and III
& so on.....

6. Given that three couples are to be seated in a row, such that husband and wife should always sit together, number of ways the arrangement can be done?

7. Col A: Least prime factor of $7! + 7$
Col B: Greatest prime factor of $7!$

8. Given a figure of a circle with a square inscribed in it, whose diagonal length is $16\sqrt{2}$. Find the radius of the circle.

- 1) remainder=2 , answer C
- 2) 1
- 3) x
- 4) D (Since r and t not mentioned as either integer or rational no.)
- 5) ii and iii
- 6) 48
- 7) C
- 8) 2 (repeated question, jan 11th [data base](#))

- 1) C
- 2) 1
- 3) ?
- 4) D
- 5) B
- 6) 12
- 7) C
- 8) $8\sqrt{2}$

3) $\frac{1}{6} + \frac{1}{4} + \frac{1}{8} = \frac{13}{24}$

take inverse so answer is $\frac{24}{13}$

5) only III is correct

plug in $a=-1$, and $b=2$

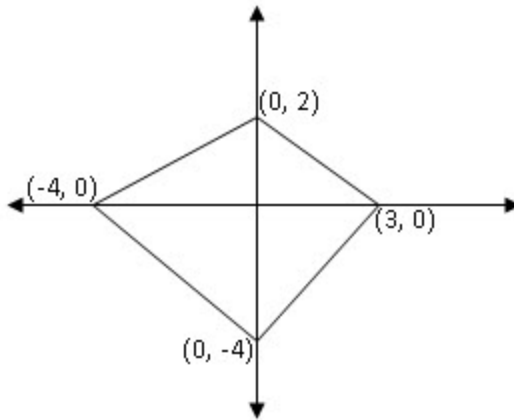
6) I had to write this out to make sure but indeed 48 is the correct answer
there are $3!$ ways to arrange each couple
and $2!$ ways to arrange each husband and wife

since there are three couples this comes out to
 $2! * 2! * 2! * 3!$

Quant:

1. Find the value of $[\sqrt{200} - \sqrt{8}] / \sqrt{2}$?

2.



Given a figure like above. Find the area of **the figure**?

3. Given a series $a_1, a_2, a_3, a_4, \dots, a_n$. If $a_1=2$ and $a_n = a_{(n-1)} + 3$, then find the value of a_{100} ?
(Note: Here 1, 2, 3, 4, $n-1$, n are suffixes)

4. A person plans a party where he has to select 2 out of 4 sweet varieties and 4 out of 5 curries. Find **the number of ways** he can select them?

5. On a rectangular coordinate a line 'k' passes through $(1, 2)$ and another line 'm' passes through $(2, 1)$.
Col A: Slope of line k
Col B: Slope of line m

6. Given $ab \neq 0$, $a \neq b$ and $a/b = b/a$.
Col A: $a + b$
Col B: 0

7. Find the sum of the common prime factors of 51 and 204?

8. Given that 'a' travels at 30miles/hr and 'b' travels at 60miles/hr. If 'b' travels 'T' miles in 3 hours, then what distance can 'a' **travel** in the same time?
(Similar to this)

9. Given a set, $S = \{1, 2, 3, 4, 5, 6, 7\}$. How many four digit numbers can be formed from the set 'S' with

10. Given that a point $p(3, 2)$ lie on a circle whose centre is $(-2, -3)$, find the circumference of the circle?

11. Given $0 < x < 1$. Which of the following has the greatest value?

- A. $1/x$
- B. $1/x^2$
- C. x
- D. x^2
- E. 1

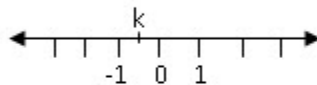
12. 150 square feet is equal to how many square yards (Given 1 yard = 3 feet)?

13. Col A: $\sqrt{a + b + 2\sqrt{ab}}$
Col B: $\sqrt{a} + \sqrt{b}$

14. Col A: Standard Deviation of 16, 5, 14, 5, 8, 16
Col B: Standard Deviation of 6, 8, 18, 14, 18, 8

15. Given that P and N are integers. If $5N = P^2$, then
Col A: N
Col B: 3

16.



Given a figure similar to above, if the distance between 'k' and some point 'm' on the number line is k^4 , then
Col A: m
Col B: 0
(Similar to this)

**17. Find the area of the plane connecting one edge and line connecting mid point of the opposite face.
(Something like this)**

18. And another question on rate of flow of water.

- 1) 8
- 2) 21
- 3) 299
- 4) 30
- 5) D
- 6) C
- 7) 20
- 8) T/2 miles
- 9) 140
- 10) $\pi * 10 * \sqrt{2}$
- 1) 8
- 2) 21
- 3) 299
- 4) 30
- 5) D
- 6) C
- 7) 70
- 8) 90 miles/hr
- 9) 840
- 10) $10 * \pi * \sqrt{2}$
- 11) B
- 12) 16.667 square yards
- 13) C
- 14) B
- 15) D
- 16) B

15) $5N = P^2$

N should be non-negative integer, P is any integer either positive or negative.
the lowest value for N to satisfy this equation is 5.

so, $N > 3$.

ANSWER A.

15. why is the minimum value for n 5 ?

I guess the ans is D.

$$5N = p^2 \implies p = \sqrt{5N}$$

ie $p < N$ but both of them are equal only if $p = n = 5$. so p can be either less than n or equal to n. so the ans is D.

plz crct me if I was wrng

14) should be b, calculate the std for each column

15) D try $P=5$ and $N=5$

then try $P=1$ and $N=1/5$

16) if $k = -1/2$

then the distance from m is $1/8$

it doesn't matter which side of k m is on

it will always be negative

thus B

Quant:

**1. Given A's speed as 50 km/h and B's speed as 55 km/h. If 'A' covers a distance in 7 hours, then how much time will B take to cover the same distance?
(Similar to this)**

2. What is the value of $|7| + |3| - |-10|$?

3. Given a quarter circle (90 degrees) with radius of the circle as 's'.

Col A: Area of the sector

Col B: Some value.

(Something like this)

**4. Given a set of numbers $k - 1, k, k + 1, k + 2, k + 3, k + 4, k + 5$. Find the ratio of mean to median?
(Similar to this)**

**5. Given there are 'n' employees of which 70% are lawyers and 55% of these are females. How many percent of 'n' employees are male lawyers?
(Similar to this)**

6. Given $P = (x)(x + 1)(x + 2)(x + 3)$, where x is a positive integer.

Col A: The remainder when P is divided by 3

Col B: 1

7. Col A: 1.5% of 0.4% of 500

Col B: 15% of 4% of 5

1) 70/11 hours

2) 0

3) ????

4) 1:1

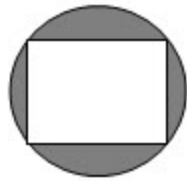
5) 31.5

6) b

7) c

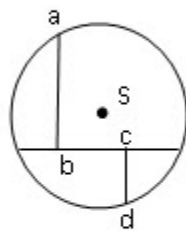
Quant:

1.



Given the area of the shaded region as 1sq.m, find the radius of the circle?

2.



If 'r' is the radius of the circle, then
Col A: $(ab + cd)/2$

Col B: r

3. Col A: $|-7| + |-3| - |3|$

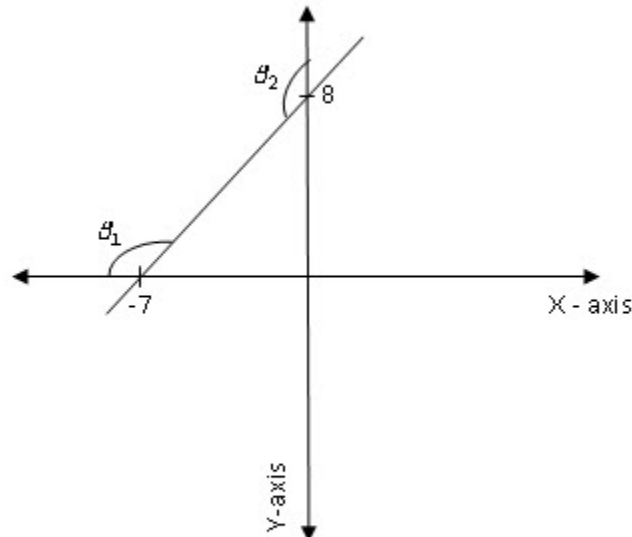
Col B: 0

4. Find the sum of the common prime factors of 51 and 204?

5. Given $[x - 1/x] / [1 + 1/x] = 99$. Find the value of $[x - 1/x] / [1 + 1/x]$?

6. In a hospital, on one day 500 sets of twins are born. If B sets are both boys and G sets are both girls, the number of boy and girl sets?
(Similar to this)

7.



Col A: 01

Col B: 02

8. Given a series $-5, 4, \dots$ and $t_n = t_{(n-1)} - t_{(n+1)}$. What is the sum of the terms up to 100 terms?

9. Given that 3 couples are to be seated in a row such that husband and wife always seat together, find the number of ways they can be arranged?

1) $\sqrt{7/8}$

2)??

- 3)A
- 4)20
- 5)???
- 6) $500-(B+G)$
- 7)B
- 8).....
- 9)12

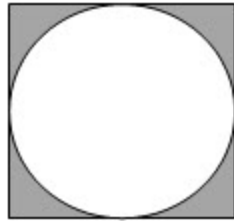
2) $ab+cd$ is a chord of circle
length of chord is always less than length of diameter.
 $(ab+cd)/2 < \text{diameter}/2 = r$
ANSWER B
Q. 1. $r = \sqrt{1 / (\pi - 2)}$

let radius be r , then the area of circle be πr^2 .
In a square opposite sides can be calculated from 90-45-45 triangle,
diagonal length which is $2r$, then sides be $\sqrt{2}r$

$$\begin{aligned} \Rightarrow \text{area of shaded region} &= \pi r^2 - 2r^2 \\ 1 &= r^2 (\pi - 2) \\ \Rightarrow r &= \sqrt{1 / (\pi - 2)} \end{aligned}$$

Quant:

1.



Given a figure of a square with a circle inscribed in it. If the area of the shaded region is 1, then find the area of the square.

- A. $\pi/4$
 - B. π
 - C. $\pi/(\pi-4)$
 - D. $1/2(\pi-4)$
 - E. $\pi/(\pi-4)^2$
- (Similar to this)

2. Given $N = 10^{22} + 1$. If 'N' is divided by 11, then

Col A: The remainder

Col B: 2

3. Given $M = 5^{k-3}$; $K > 0$

Col A: Units place of M

Col B: Tens place of M

4. A person 'J' travel speed is 35mph and 'A' travel speed is 60mph. If 'A' completes a distance in T hrs, then how much time taken for 'J' to travel the same distance as 'A'?

- A. $T/(35)(60)$
- B. $T(35)/60$
- C. $15T/60$
- D. $60T/35$
- E. $60 * 35/T$

5. Find the value of $(\sqrt{200} - \sqrt{2})/\sqrt{2}$?

6. In the set -14, -11, -7, 9, 10, 13, which of the following is true?

- I. Median is greater than mean
- II. Standard Deviation is greater than range
- III. Mean is greater than median.
- A. I only
- B. II only
- C. I and II only
- D. I, II and III only
- E. None of these

- 1)c [$c - \pi/(4 - \pi)$]
- 2)c
- 3)d [if we put $k=1$, col A is greater, if we put $k=2$, both are equal]
- 4)d
- 5)9
- 6)a

Quant:

- 1. Given $1/x - 1/y = xy$
Col A: y
Col B: $x+1$

- 2. What percent of $1/2$ is $2/3$?

- 3. An **equilateral triangle** with sides is given and in options rectangles with sides were given. We have to choose a rectangle whose area is equal area to triangle?
(Something like this)

- 4. Col A: $7^{37} - 7^{36}$
Col B: $6(7^6)^6$

- 5. Find the interval of x , if xy is not equal to zero and $x = 2y + 3$?

- 6. If K , L and M are three prime numbers greater than 10, then
Col A: Number of factors of KLM and 1 inclusive
Col B: 8

- 7. Given a series $2, x, 7, \dots$. In the following series, if every term is the addition of the preceding constant, find the constant?

- 8. Given two cylinders A and B and if the cylinders A's radius and height are half that of cylinder B, then
Col A: Area of Cylinder A
Col B: $4(\text{area of Cylinder B})$

- 9. Given an equilateral triangle ABC of side 5. If the vertex A is at origin, B is at $(0, 5)$ and C is in the first quadrant, find the slope of BC?

10. If $5 < x < 1$, then

Col A: x

Col B: $1/x$

11. Given $a - b = 2$

Col A: $25^a/5^b$

Col B: 5^a

12. Given $w = 10^4$ and $0 < x < 10^{-4}$. Find an approximate value of $(w + x)/3w$?

1. ????
2. 133%
3. ????
4. B
5. 7
6. B
7. $5/2$
8. B
9. $-25/43$
10. A
11. A
12. 0.33 or $1/3$

1) if this question is worded correctly than D would be answer
more likely RHS should be $1/xy$

then C is correct

4) should be C

5) how did you get 7?

11) should be D

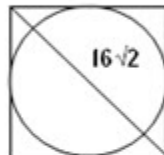
col a simplifies to $5^{[2b+4-b]}$

colb is $5^{(b+2)}$

if b is negative then B is a **large** negative value than B is greater
if b is positive A is greater

Quant:

1.



Given length of the diagonal of the square as $16\sqrt{2}$, then find the radius of the circle?

2. Col A: $[3^{\text{power}(-8)}] - [3^{\text{power}(-9)}] - [3^{\text{power}(-9)}]$

Col B: $[3^{\text{power}(-9)}]$

3. Given a figure of a right angled triangle with base x and height $2x$. The area of the right angled triangle asked to find out the perimeter of the triangle?

A. $8 + \sqrt{3}$

B. $18 + 5\sqrt{3}$

& so on.....

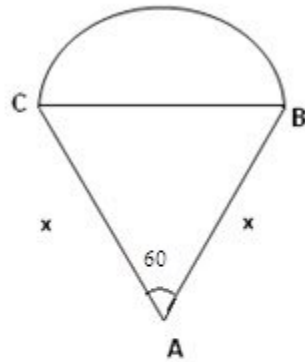
4. Col A: 10% of $\sqrt{54372.19}$

Col B: $\sqrt{5437.219}$

5. Given $m/n = n/r = 5/4$. What can be the value of 'r'?

6. Col A: $[1/(x)^{\text{power } (-2)}]$ whole power (-3)
 Col B: $[1/x]$ whole power (-6)

7.



Given a semicircle drawn on a triangle as shown in the figure. If the circumference of circle is 16π , find the semicircle?
 (Similar to this)

8. Given mean of the sum as 'x' and standard deviation of the sum as 'y'. If the mean is increased by 2, the standard deviation change?
 (Similar to this)

9. Given that three machines can produce one job of widgets in 4, 6 and 8 hours respectively. If three of them work on a single job, then what is the contribution of the fastest machine?

ans

- (1) 8
- (2) C
- (3) $3x + \sqrt{5} \cdot x$ whr $x = \sqrt{\text{area}}$
- (4) B
- (5) $r = (16/25) \cdot m$
- (6) B
- (7) 16
- (8) 🤔 ????
- (9) $2/9$ of $(24/13)$ hours

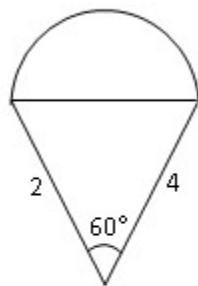
Quant:

1. Col A: $\sqrt{1 + \sqrt{a + \sqrt{2}}}$

Col B: $\sqrt{\sqrt{2} + \sqrt{(\sqrt{2} + 1) / \sqrt{2}}}$

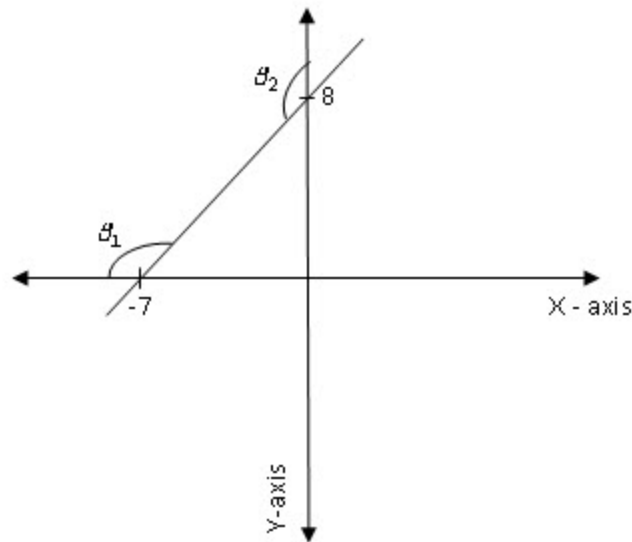
2. A person store 'T' pens. Of that he sells 135 pens at the cost of \$0.25 each. At what cost should he sell t pens to get the same amount?

3.



If the circumference of the semicircle is 50π , then find the radius of the circle?

4.



Col A: θ_1
Col B: θ_2

5. Given standard deviation of a set 'r' is 13 and of a set 't' is 7.

Col A: Mean of 'r'
Col B: Mean of 't'

6. Given $a_n = a(n-1) - a(n-2)$, $a_1 = -5$ and $a_2 = 4$. Find the sum of first 100 terms?

7. Given that there are a total of 'n' sets of twins in a hospital. If 'b' is the set of only boy twins and 'g' is the set of only girl twins, then

Col A: The total number of boys
Col B: $n - b + g$

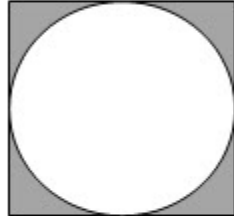
8. Find the value of $[\sqrt{100} - \sqrt{8}] / \sqrt{2}$?

9. Col A: Volume of a cube of surface area $150 \cdot y^2$
Col B: $125 \cdot y^3$

10. A tank consists of 'G' gallons of water. If the water fills at the rate of 'x' and leaks out at the rate of 'y', what is the time taken to empty half of the tank ($G/2$) in terms of x and y?

11. Given A, B and C as the three angles of a triangle. If $A - B = 150$ and $B - C = 300$, then find the value of

12.



If the area of the shaded region is 1 sq.cm, find the area of the circle?

- A. $\pi/4$
- B. π
- C. $\pi / (\pi - 4)$
- D. $\pi / (4 - \pi)$
- & so on.....

13. Given a set $s = \{5, 6, 7, 8, 9\}$

Col A: **The number of** five digit numbers that can be formed using the digits from the set S

Col B: $(5)(6)(7)(8)(9)$

14. The value of $|-7| + |3| - |10|$ is _____

15. The budget of a class trip is \$'x' and each **student** was supposed to pay \$'c'. Because of some inconvenience they missed the trip, while the total budget remained the same. How much did it actually cost per head in

16. Given a cube ABCDEFGH. If X and Y are the mid points of AB and CD respectively, find the area of the p

17. Given a line with x-intercept -7 and y-intercept 8.

Col A: Angle a (where a is the obtuse angle between the line & y-axis)

Col A: Angle b (where b is the obtuse angle between the line & x-axis)

18. Given an arc length of a circle as 'n' and its sector has an area of $3n/2$. Find the radius of the circle?

19. Given $|2x+3| < 7$

Col A: x^2

Col B: 4

20. Given two sets $S = \{2, 4, 6\}$ and $T = \{2, 4, 6, 8, 10, 12\}$. Find the number of values of set M, such that M is subset of T?

21. Given two cylinders A and B, if the cylinder 'B' radius and height are half that of cylinder 'A', then

Col A: Area of Cylinder A

Col B: $4(\text{Area of Cylinder B})$

And many previous [database](#) questions appeared.

12) let side of square be a ,
area of square will be a^2
radius of circle will be $a/2$,
area of circle $\pi a^2/4$,
area of square minus area of circle gives u shaded region (already given as 1) i.e. $a^2 - \pi a^2/4 = 1$,
 $(4a^2 - \pi a^2) = 4$,
from here $a^2 = 4/4 - \pi$,
then $a = 2/\sqrt{4 - \pi}$,
wkt $r = a/2$. so $r = 1/\sqrt{4 - \pi}$
then area of circle will be $\pi r^2 = \pi/4 - \pi$ [/img]

1) if $a=1$ then answer is B, not really sure how to solve this one, you have to square it quite a few times

2) ?? need to know T

3) If by circumference of the semi-circle they include the bottom line then $50\pi = \pi r + 2\sqrt{3}$

$r = 50 - 2\sqrt{3}$

π

4) B

5 D

6 sum is 13

7) not enough info

8) $5\sqrt{2} - 2$

9 C

10 $T = G$

$2(x-y)$

11) ??? somehow $A = 260$ and $B = 110$ but this can't be right for angles of a triangle

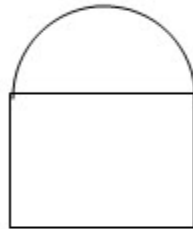
12) $\pi/(4-\pi)$

13) with repeats or without its still B

- 14 0
- 15 $1.25c$
- 16) need a picture
- 17 A opposite of number 4
- 18 radius =3
- 19) $-5 < x < 2$ so D
- 20) M has 5 or 4 values
- 21) C

Quant:

1.



As shown in the figure above, a semicircle is placed on a side of a square, such that the diameter of the circle is the side of the square. If the side length of the square is 5 units, then what is the perimeter of the figure?
(Similar to this)

2. Given a rectangular cuboid of dimensions 5 X 10 X 6 inches, if weight of the box is 17kgs then what is the weight in pounds?

3. Another question is that in the options, the equations are given and we have to find the slope of that and which line has the greatest slope?
(Something like this)

4. Given a series 1, 7, 13, 19, 23 What is the position of the number in the series that lies between 19 and 23?
Col A: The position
Col B: 19
(Similar to this)

5. A sum of \$2000 is given at the rate of 'r%' for 1 year on simple interest and at the end of 1 year if \$150 is then find value of r?

6. Given that 10 persons can watch a movie in 7 days. What is the probability that at least two of them watch on the same day?

7. Given that $-10 \leq x \leq 10$ and $-11 \leq y \leq 11$. What is the greatest possible value of $y - x$? (Similar to this)

1. $15 + \pi \cdot 2.5$
 2. $(17 \cdot 12^3) / 300 \text{ kg/ft}^3$
 3. Use $y = mx + c$
 4. I think the fifth term should be 25.
So it's C
 5. 7.5%
 6. I guess 1
 7. $-21 \leq y - x \leq 21$
So it's 21.
-

1. $15 + 2.5(\pi)$
2. $(6 \cdot 5 \cdot 10) / (17 \cdot 12 \cdot 12 \cdot 12)$ units
3. *****
4. 1, 7, 13, 19, 23, 29, 32, 38, ... this is an AP series but.. can't proceed further..
5. 7.5
6. $3/7$
7. 21

) probability for at least two persons watch on the same day = 1 - probability of no two persons watching on same day

probability = $1 - 0 = 1$

[probability of no two persons watching on same day = 0, because the number of persons are more than the number of days]

Quant:

1. Given $t = m + 1/2$ and $m \geq 20$.

Col A: t

Col B: some number (xx)

2. A box contains 10 bulbs, out of which 2 are defective. If 3 bulbs are chosen at random, then what is the probability of getting a non-defective bulb?

3. In an isosceles triangle STU, the sides $ST = SU$ and 'p' is any point on UT and then which of the following is true?

I. $ST > PS$

II. $PU > ST$

III. $PS > PT$

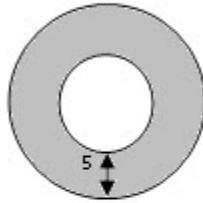
A. Only I

B. Only II

C. Only III

& so on

4.



Given a figure like above with two **concentric circles** and the gap between circles is 5 feet long. What is the area of the shaded region?
(Something like this)

5. Given a rectangular cuboid of dimensions 5 X 10 X 6 inches, if weight of the box is 17kgs then what is the weight of the box in feet?

- A. 20
- B. 30
- C. 40
- D. 50
- E. 60

(Something like this)

6. Col A: $(a + b)^3$

Col B: $a^3 + b^3$

7. Col A: **Standard Deviation** of d, d, d, d, d

Col B: Standard Deviation of d + 5, d + 5, d + 5, d + 5, d + 5

8. In the year 1997, the **company** has certain amount 'S'. In 1998, it is increased by r% and 1999 it is increased by r% again. Find the total amount after increase?
(Something like this)

And many previous database questions appeared.

1. ????

2. $7/15$
 3. A
 4. $(r+5)^2 : r^2$
 5. $2448/25$
 6. D
 7. C
 - 8.
- In 1997 , S
In 1998 , $[(r/100)*S]+S$, let this amt be X
In 1999 , $[(r/100)*X]+X$

1. ??
2. 1
3. None of them. Apparently A may be true, but as P can be anywhere in UT it can be over U or T, in which case
4. $(R+5)/R$
5. $2448/25$
6. D
7. C
8. $S(1+R/100)^2$

can sum1 explain 5.
the ans for 6th shud be A coz
 $(a+b)^3 = a^3 + b^3 + 3ab^2 + 3ba^2$
so itz definitely greater than $a^3 + b^3$

Question 5 is not accurately delineated. I've solved the problem herewith for you to understand the logic.

Density is degree of compactness of a substance. Most likely, you will be given the **relationship** in the question, if not, Mass/Volume.

Mass = 17 kg (given)

Volume = $L \times B \times H$ (for cuboid)

Dimensions are given in inches, but the answer is sought in feet.

12 inches = 1 foot

So, Volume = $(5 \times 6 \times 10)/(12)^3 = 0.17 \text{ (ft)}^3$ approx

Density = $17/0.17 = 100 \text{ kg}/(\text{ft})^3$

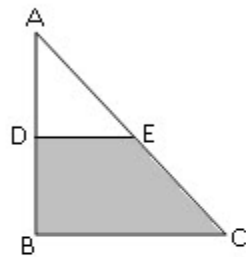
Do not worry that this is not in the answer choices above, because some questions on this website is half-baked.

Quant:

1. Col A: Standard Deviation of 10, 30, 50, 70, 90
Col B: Standard Deviation of 10, 45, 50, 75, 90

2. If $N = 5^9 + 7^{10}$, then
Col A: The least factor of 'N' greater than 1
Col B: 3
(Similar to this)

3.

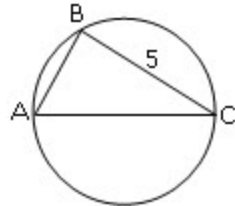


Given that 'D' is the midpoint of AB.
Col A: Area of triangle ABC
Col B: 3(Area of the quadrilateral BDEC)

4. Given $s/t = 1.5$
Col A: $2t$
Col B: $s/0.75$

5. Given $150/4 > k^2 > 7/3$.
Col A: Number of odd integers possible for the value of k
Col B: Number of even integers possible for the value of k

6.



Given AC is diameter, $BC = 5$ and area of triangle ABC as 5, then find the area of the circle?
(Similar to this)

7. Given five numbers 50, 90, 110, 135, 147. Which of the following is not divisible by square of any positive

8. Given $y = 2x + 5$ and $x^2 = 4$.

Col A: y

Col B: 3

9. Given average of 4 numbers as ' m ' and average of 5 numbers as ' v '. Find the average of total 9 numbers

10. There are certain events in which two persons compete and there is a trophy for each game. If one loses, he gives trophy to the other player and if he wins he gets 1 trophy. At the end, if one has won 4 games, then he has more trophies than the number of trophies he had at the start, assuming there is no tie in any of the games, find the number of games they played?

(Similar to this)

11. If the number of possible sets for choosing 4 things out of 6 things is 15, then find the possible number of sets for choosing 3 things out of 7?

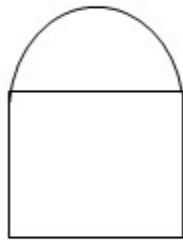
12. Given initial ratio of men to total number of people in a team as 1: 3. If two women leave the team then the ratio becomes 2: 5. What is the total number of people in the team?

(Similar to this)

13. If the position of 5 in the number 5234 is denoted by $[5 \cdot (10^n)]$, then what will be the value of n ?

14. If $|3x+2| = 8$, then what would the value of x ?

15.



Given a figure like above with the semicircle on the side of a square and the area of square is given as 1. Find the area of the figure?

16. If $1 < y < 2$ and $1 < xy < 4$, then what would be the value of x ?

Col A: x

Col B: 2

17. Three persons x , y and z altogether complete a work in 9 hours. If y and z together takes 12 hours to complete the same work, then x alone will take how much time to complete the same work?

18. Given $X = \{25, 26, 27, 28\}$ and $Y = \{7, 8, 9, 10, 11\}$. How many distinct values can be produced by $(x - y)$ where $x \in X$ and $y \in Y$?

1. A
2. B
3. C
4. C
5. B
6. $29\pi/4$
7. 110
8. D
9. $[4M+5V]/9$
10. AND 11. PLEASE EXPLAIN

- 12. 16
- 13. 3
- 14. 2 OR $-10/3$
- 15. $3 + (\pi/2)$
- 16. D
- 17. 36
- 18. 8

ht of d rt angled triangle is 5 & its area is also 5.
so $\text{area} = (1/2) * b * h \implies 5 = (1/2) * b * 5 \implies b = 2$

now 3rd side of triangle is given by $(5^2 + 2^2)^{(1/2)} = 29^{(1/2)}$
dis is d diameter so radius will be its half

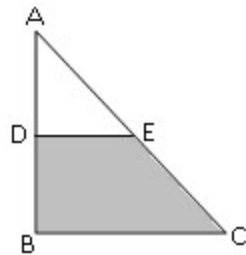
Area of circle = $\pi * r^2 \implies \pi * 29/4$

- 2) if we see the result of both terms for 5^9 the result will be odd one and if we see for 7^{10} the result will be odd. In odd terms we will get even number. as they asked the least factor that is greater than one. it is two because it is divisible by 2.. (see that odd^{odd} is always odd, and odd^{even} is always even)
as in col B it is 3.. the greater value is 3 the ans is B

Quant:

1. Given that $37.5 > k^2 > 2.33$. Find the value of k?
(Similar to this)

2.



D is mid point of AB and E is the mid point of AC.

Col A: 3(Area of triangle ADE)

Col B: Area of quadrilateral BDEC

3. Given $x(x+5) = 36$

Col A: x

Col B: -4

4. If the ratio of volume of two cubes is $4/3$, then

Col A: Ratio of edges

Col B: $4/3$

5. Given that a point $(1, 2)$ lie on the line $mx + ky = 3$.

Col A: k

Col B: 0

6. In a set of numbers from 1 to 10. If two numbers are to be selected from these 10 numbers with replacement, what is the probability that at least one of them is even?

7. Given the arithmetic mean of 20 numbers is 12 and arithmetic mean of next 10 numbers is 6, what is the arithmetic mean?

1. $+(2\ 3\ 4\ 5\ 6)$
2. C
3. D
4. B
5. D
6. $3/4$
7. 10

QUANT 2009 DATABASE

Quant:

1. The value of $1/5 - 1/10 =$

A. 0.1

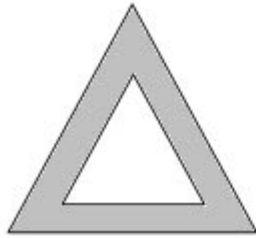
B. 0.2

C. 0.5

& so on.....

Ans: A

2.



If the base length and height of a bigger triangle are 4 & 5, and if the base length and height of smaller triangle are 2 & 3, then what is the area of the shaded region?

Ans: 5.5

3. Given 'n' is a positive integer. What is the least value of n, such that the product $12n$ should be a perfect square?

Ans: 3

4. A group can charter a particular aircraft at a fixed total cost. If 36 people charter aircraft rather than 40 people, the cost per person is 12\$. What is cost per person if 40 people charter it?

Ans: 108\$

5. Col A: $(0.9/1.1)^2 + (1.1/0.9)^2$

Col B: 2

Ans: A

6. If slope of a line XY is $-1/2$, then

Col A: X-intercept of Line

Col B: Y-intercept of Line.

Ans: D

7. If the median of seven consecutive integers is $2n+2$, then find the Arithmetic mean of the sequence?

Ans: $2n+2$

Quant:

1. The value of $1/5 - 1/10 =$

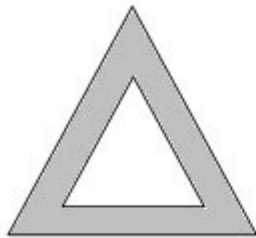
A. 0.1

B. 0.2

C. 0.5

& so on.....

2.



If the base length and height of a bigger triangle are 4 & 5, and if the base length and height of smaller triangle are 2 & 3, then what is the area of the shaded region?

3. Given 'n' is a positive integer. What is the least value of n, such that the product $12n$ should be a perfect square integer?

4. A group can charter a particular aircraft at a fixed total cost. If 36 people charter aircraft rather than 40 people, the cost per person is 12\$. What is cost per person if 40 people charter it?

5. Col A: $(0.9/1.1)^2 + (1.1/0.9)^2$

Col B: 2

6. If slope of a line XY is $-1/2$, then

Col A: X-intercept of Line
Col B: Y-intercept of Line.

7. If the median of seven consecutive integers is $2n+2$, then find the Arithmetic mean of the sequence?

Admin,
drrajusgre.com

1.a

2.5.2

3. $n=3,12,\dots$ so on but least is 3

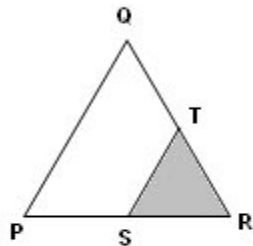
4. $10(x-\text{fourtyeight})/9$..hope so

5.a

6.d

Quant:

1.



Given that, if the area of the triangle STR is $\frac{1}{9}$ th area of the equilateral triangle PQR, then what is the ratio

A. 1:3

B. 3:1

C. 2:1

& so on.....

Ans: C

2. Given a set of five numbers 27, 29, 35, 9, 25 & 16, on increasing each number by 'K' if the new mean of 29.5, then what is the new median?

Ans: 32

3. 3. If $a_1=2$ and $a_{n+1} = (a_n-1)^2$, then what is the value of a_{15} ?

A. 2^8

B. 2^{16}

C. 2^{32}

D. 2^{128}

E. 2^{256}

Ans: D

4. Given that, if $|x| = |y|$ and $xy < 0$, then

Col A: $x-y$

Col B: 0

Ans: D

5. If the equation of two lines 'L' & 'M' are $7x - 4y = 1$ and $10x + 5y + 3 = 0$, then

Col A: Slope of the line 'L'

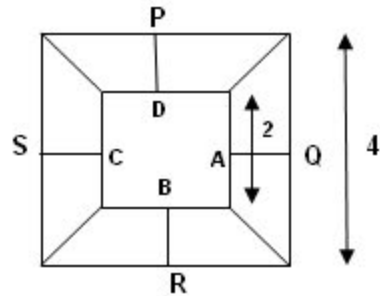
Col B: Slope of the line 'M'

Ans: A

6. Given that an amount of 2000\$ is given for annual interest at rate of 'r'%. If 150\$ is received as an interest then find the rate of interest 'r'%?

Ans: 7.5%

7.



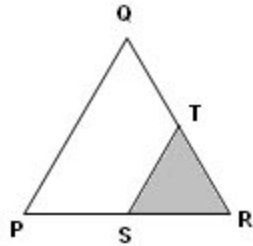
Given P, Q, R, S and A, B, C, D as midpoints of bigger square and smaller square respectively, if on joining them 8 trapeziums are formed as above, then find the perimeter any one of the trapezium?

Ans: $4 + \sqrt{2}$

8. Given volume of a cube as some value(xxx) and asked to find the lateral surface area of the cube?

Quant:

1.



Given that, if the area of the triangle STR is $\frac{1}{9}$ th area of the equilateral triangle PQR, then what is the ratio of the side lengths of the two triangles?

- A. 1:3
- B. 3:1
- C. 2:1
- & so on.....

2. Given a set of five numbers 27, 29, 35, 9, 25 & 16, on increasing each number by 'K' if the new mean of the set is 29.5, then what is the new median?

3. 3. If $a_1 = 2$ and $a_{n+1} = (a_n - 1)^2$, then what is the value of a_{15} ?

- A. 2^8
- B. 2^{16}
- C. 2^{32}
- D. 2^{128}
- E. 2^{256}

4. Given that, if $|x| = |y|$ and $xy < 0$, then

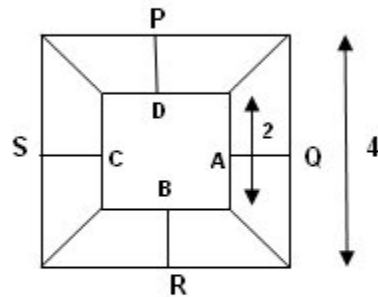
- Col A: $x - y$
- Col B: 0

5. If the equation of two lines 'L' & 'M' are $7x - 4y = 1$ and $10x + 5y + 3 = 0$, then

- Col A: Slope of the line 'L'
- Col B: Slope of the line 'M'

6. Given that an amount of 2000\$ is given for annual interest at rate of 'r'%. If 150\$ is received as an interest after 1 year, then find the rate of interest 'r'%?

7.



Given P, Q, R, S and A, B, C, D as midpoints of bigger square and smaller square respectively, if on joining them 8 trapeziums are formed as above, then find the perimeter any one of the trapezium?

8. Given volume of a cube as some value(xxx) and asked to find the lateral surface area of the cube?

Admin,
drrajusgre.com

1. The product of prime factors of 300.

- A. 15
 - B. 30
 - C. 45
 - & so on....
- Ans: B**

2. If 'P' is the probability of an event occurring, P^* is the probability of not occurring an event and if

Col A: PP^*

Col B: P

Ans: B

3. If (2,1) is the centre of the circle and (9,1) is the point on the circumference, then what is the radius?

Ans: 7

4. In a bottle of 3 red, 4 green and 5 blue marbles, if 2 marbles are taken out, what is the probability of getting 2 red marbles?

marbles are of red color?

Ans: $\frac{3c^2}{12c^2}$ (or) $\frac{1}{22}$

5. Given $A = \{6, 6, 9, 10, 14, 15\}$

$B = \{7, 9, 10, 11, 14, 15\}$

Col A: Standard deviation of A

Col B: Standard deviation in B

Ans: A

6. Given a series of numbers $x, y, z, 0, 1, 1, 2, 3, 5, 8, \dots$. If every number in the series is sum of the two preceding numbers, then what is value of x ?

Ans: 2

7. Given that there are two boats X and Y which start at the same point. If boat X travels due north at a rate of 3 miles/hr and boat Y travels due east at a rate of 4 miles/hr, then at what time will the two boats be 10 miles apart?

Ans: 2hrs

Admin,
drrajusgre.com

Quant:

1. The product of prime factors of 300.

A. 15

B. 30

C. 45

& so on....

2. If 'P' is the probability of an event occurring, P^* is the probability of not occurring an event and if $P > 0.5$

Col A: PP^*

Col B: P

3. If (2,1) is the centre of the circle and (9,1) is the point on the circumference, then what is the radius of the circle?

4. In a bottle of 3 red, 4 green and 5 blue marbles, if 2 marbles are taken out, what is the probability that at least one of them is of red color?

5. Given $A = \{6, 6, 9, 10, 14, 15\}$

$B = \{7, 9, 10, 11, 14, 15\}$

Col A: Standard deviation of A

Col B: Standard deviation in B

6. Given a series of numbers $x, y, z, 0, 1, 1, 2, 3, 5, 8, \dots$. If every number in the series is sum of the two preceding numbers, then what is value of x ?

7. Given that there are two boats X and Y which start at the same point. If boat X travels due north at a rate of 3 miles/hr and boat Y travels due east at a rate of 4 miles/hr, then at what time will the two boats be 10 miles apart?

Admin,
drrajusgre.com

Quant:

1. If the sum of a two digit number 'n' is $n/4$, then

Col A: n

Col B: 36

Ans: D

**2. If $A = \{5, 12, 34, 35, 56, 34, 34, 48, 3\}$ and
 $B = \{3, 45, 3, 4, 53, 56, 93, 23, 45, 5\}$**

Col A: The standard deviation of A

Col B: The standard deviation of B

Ans: B

3. Given that, if a number x leaves remainder 7 when divided by 11 and leaves remainder 1 when divided by 13, then what is the least possible value of x?

Col A: Least possible value of x

Col B: 40

Ans: A

4. If a line of slope $-1/3$ passes through the points (1, p) and (4, 5), then what is the value of p?

Ans: 6

5. If $a_1 = 2$ and $a_{n+1} = (a_n - 1)^2$, then find the value of a_{17} ?

Ans: 2^{256}

6. Two cyclists are moving towards each other at 10 miles/hour. When they are 50 miles apart, a fly starts flying between them and move towards other, moving to and fro till the two cyclists meet each other. If the fly is moving at the speed of 15 miles/hour, then find the total distance covered by the fly?

Ans: 37.5

Admin,
drrajusgre.com

Quant:

1. If the sum of a two digit number 'n' is $n/4$, then

Col A: n

Col B: 36

Ans: D

**2. If $A = \{5, 12, 34, 35, 56, 34, 34, 48, 3\}$ and
 $B = \{3, 45, 3, 4, 53, 56, 93, 23, 45, 5\}$**

Col A: The standard deviation of A

Col B: The standard deviation of B

Ans: B

3. Given that, if a number x leaves remainder 7 when divided by 11 and leaves remainder 1 when divided by 13, then what is the least possible value of x ?

Col A: Least possible value of x

Col B: 40

Ans: A

4. If a line of slope $-\frac{1}{3}$ passes through the points $(1, p)$ and $(4, 5)$, then what is the value of p ?

Ans: 6

5. If $a_1 = 2$ and $a_{n+1} = (a_n - 1)^2$, then find the value of a_{17} ?

Ans: 2^{256}

6. Two cyclists are moving towards each other at 10 miles/hour. When they are 50 miles apart, a fly starts and move towards other, moving to and fro till the two cyclists meet each other. If the fly is moving at the speed of 15 miles/hour, then find the total distance covered by the fly?

Ans: 37.5

Admin,
drrajusgre.com

Quant:

1. In a company, there are 54 members. If Wednesday has more number of birthdays than on any other day of the week, then what is the least number of birthdays on Wednesday?

Col A: The least number of birthdays on Wednesday

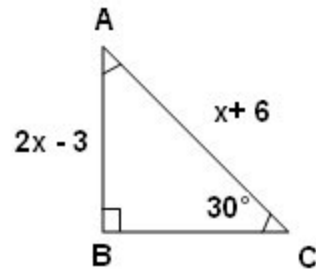
Col B: 8

Ans: A

2. In a set of 5 numbers, if 7 is the median, 4 is the mode and mean of the largest & second largest number is the average of the set?

Ans: 11

3.



What is the value of x ?

Ans: 4

4. If $w > 0$ and $z > 0$, then

Col A: $w^4 + z^3$

Col B: $w^2 + z$

Ans: D

5. Given a circle which passes through the points $(0, 6)$ and $(8, 0)$, then

Col A: Radius of the circle

Col B: 10

Ans: D

6. A salesman of a company gets 12% commission on the sales up to \$ 500 and he gets 20% commission on sales amount on that day. If the salesman's total commission is \$380 on that day, then how much amount that day?

(Something similar to this)

Ans: \$2100

7. If ' n ' is positive integer, then

Col A: The unit place of $[156]^n$

Col B: The unit place of $[165]^n$

Ans: A

8. Given that there are 'x' boxes and the balls are arranged in such a way that no ball is left. If the number reduced by 3 and if 12 balls are arranged in them, then 5 balls are left behind, what is the original number

Quant:

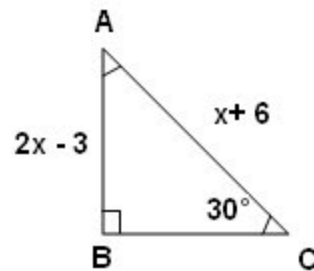
1. In a company, there are 54 members. If Wednesday has more number of birthdays than on of the week, then

Col A: The least number of birthdays on Wednesday

Col B: 8

2. In a set of 5 numbers, if 7 is the median, 4 is the mode and mean of the largest & second largest number is the average of the set?

3.



What is the value of x?

4. If $w > 0$ and $z > 0$, then

Col A: $w^4 + z^3$

Col B: $w^2 + z$

5. Given a circle which passes through the points (0, 6) and (8, 0), then

Col A: Radius of the circle

Col B: 10

6. A salesman of [a company](#) gets 12% commission on the sales up to \$ 500 and he gets 20% commission on sales amount on that day. If the salesman's total commission is \$380 on that day, then how much amount that day?

(Something similar to this)

7. If 'n' is positive integer, then

Col A: The unit place of $[156]^n$

Col B: The unit place of $[165]^n$

8. Given that there are 'x' boxes and the balls are arranged in such a way that no ball is left. If the number reduced by 3 and if 12 balls are arranged in them, then 5 balls are left behind, what is the original number

Admin,
drrajusgre.com

1. If the sum of a list of 12 distinct positive even numbers is 156, then

Col A: Range of the twelve numbers

Col B: 20

Ans: A

2. Given a parabola $y = x^2 - 3$ which intersects y-axis at one point. If a point in xy-plane is P (2, k), distance between the point P and the intersecting point on y-axis?

Ans: $2\sqrt{5}$

3. Given a sum of Rs. 20,000, if two persons 'A' and 'B' lends amount for interest

Col A: The interest 'A' gets, if the rate of interest for first year is 4% and second year is 6%

Col B: The interest 'B' gets, if the rate of interest for first year is 6% and second year is 4%

Ans: C

4. If 63^n is divisible by 3^{16} then

Col A: n

Col B: 7

Ans: A

5. A teacher teaches biology for a group of 53 students. She can divide them into two batches P and Q of n students each and Q has x students of five batches; or six batches (with y students in 5th batch and (y+1) students in 6th batch), then

Col A: x

Col B: n

Ans: A

6. If $f(n+3)=f(n)$ and

$$f(-1)=6$$

$$f(0)=5$$

$f(1)=4$, then what is the value of $f(8)$?

Ans: 6

7. Col A: 1.5 % 0.4 % 500

Col B: 15 % 4 % 5

Ans: C

8. A person (xxx) wrote a phone number on a note and that was later lost. When he try to recollect, remember that the number had 7 digits, the digit '1' appeared in the last three places and digit '0' d all. What is the probability that the phone number contains at least two prime digits?
(Some thing like this)

9. Given a series -9, 10,-11, 12,-13, 14, -15.....

Col A: The sum of the series till 100

Col B: 45

Ans: B

Quant:

1. If the sum of a list of 12 distinct positive even numbers is 156, then

Col A: Range of the twelve numbers

Col B: 20

2. Given a parabola $y = x^2 - 3$ which intersects y-axis at one point. If a point in xy-plane is P (2, k), then between the point P and the intersecting point on y-axis?

3. Given a sum of Rs. 20,000, if two persons 'A' and 'B' lends amount for interest

Col A: The interest 'A' gets, if the rate of interest for first year is 4% and second year is 6%

Col B: The interest 'B' gets, if the rate of interest for first year is 6% and second year is 4%

4. If 63^n is divisible by 3^{16} then

Col A: n

Col B: 7

5. A teacher teaches biology for a group of 53 students. She can divide them into two batches

has 7 batches of n students each and Q has x students of five batches; or six

batches (with y students in 5 batches and (y+1) students in 6th batch), then

Col A: x

Col B: n

6. If $f(n+3)=f(n)$ and
 $f(-1)=6$
 $f(0)=5$
 $f(1)=4$, then what is the value of $f(8)$?

7. Col A: 1.5 % 0.4 % 500
Col B: 15 % 4 % 5

8. A person (xxx) wrote a phone number on a note and that was later lost. When he try to recollect, he can the number had 7 digits, the digit '1' appeared in the last three places and digit '0' did not appear at all. W probability that the phone number contains at least two prime digits?
(Some thing like this)

9. Given a series -9, 10,-11, 12,-13, 14, -15.....
Col A: The sum of the series till 100
Col B: 45

Admin,
drrajusgre.com

1.A

2.????

3.is it a compound interest or simple interest
if simple interes....C
if compound ..a

4.d

5.

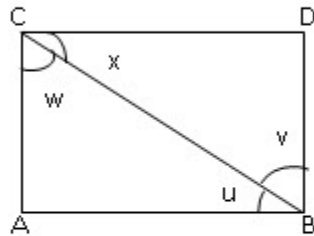
6.13

7.??

9.a

1. Given that the mean of a group of 50 members as 100. If the mean of first 20 members is

of next 15 members is 90, then what is the mean of remaining members of the
2.



If AB and CD are two **parallel lines**, then which of the following is true?

A. $u = v$

B. $w = x$

& so on.....

3. In a college, the average of senior students is 80 and average of junior students both are combined,

Col A: The average of the combined students

Col B: 85

4. Given that a train is moving at a speed of 100km/hr. What is the speed in m/sec?

5. In a **coordinate system**, if three points (5, 3), (x, 4) and (3, 2) lie on a same line, then find a value of x?

6. What is the y-intercept of the line $4x - y = 4$?

7. There are 3 hangers and 5 shirts **in a room**. In how many ways, can these 5 shirts be arranged among the hangers? (Similar to this)

Last edited by drrajus faculty on Tue Aug 25, 2009 1:20 pm; edited 2 times in total

Hi. I was going through the solutions provided by you for the Aug 03 quant thread above and I have a few questions to ask.

Q:1 How did you arrive at the answer 90? I have been trying for quite sometime now and despite all the permutations and combinations I cannot arrive at the mean being 90.

Meanwhile, I arrived at this solution, **please correct me if I am wrong**. Since the mean of the first 20 people and the next 15 people are 80 and 90 respectively, the total for the same should be $1600(80 \times 20)$ and $1350(90 \times 15)$. Also, given that the mean of the 35 people is 85, the total should be $2975(85 \times 35)$. So, the mean of the 35 people is $\frac{2975}{35} = 85$.

students is 100. It gives us the total of all of these 50 as 5000.

The students remaining now are 15, also the remaining total now comes across as $(5000 - 1350 - 1600 = 2050)$ mean for the remaining 15 students now stands as $2050/15$ which is approx. 136.7??

Q.3. How did you decide the answer to be C? I thought the information provided was not sufficient enough to arrive at thought D was more appropriate.

Q.4 Converting 100 km/hr to m/s I arrived at the answer: $250/9$ m/s which is approx. 27.78 m/s. Request you to please arrive at $160/3$ m/s.

Q.5 Please explain how is the answer 5?

Q.7 Please explain the solution.

Please do help me clear my concepts and understand this better. Thanks in advance.

Q1 is approx **2050/15...**

Q2...can ny1 xplain me ...i think its **W=V** in all cases

Q3.not necessarily 85..it **can b nywhere from 80 to 95 so D**

4. $100 \times 5/18 = 500/18 = 5.5 \times 5 = 27.5$

5. ya **5** is correct ..prepare a equation for 2 given points and then sub the other point in **X-2Y=1**

6.its damm easy..take it into **X/a+Y/b=1** then check the values **b=-4**

7.plzz xplain 7th answer pllllllllzzzzzzzzzzzz

Quant:

1. If $x \neq 0$, then

Col A: $x^2/|x|$

Col B: x

2. Given a table

Range Frequency

10 – 20 5

20 – 30 10

30 – 40 5

40 – 50 20

Col A: Mode

Col B: 40

3. If the x-intercept of the line is 'n' and y-intercept of the line 'm', then what is the slope of the equation?

4. If $0 < y < x$, then

Col A: xy

Col B: $y - x$

5. What is the value of $6/(1/2 + 1/2 + 1/2)$?

6. Given $R/T = 0.4$, then what is the value of R in terms of 'T'?

A. $1/5 T$

B. $2/5 T$

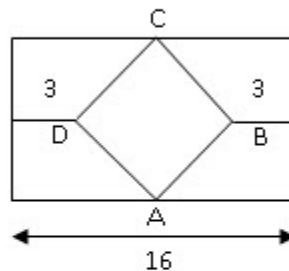
C. $3/5 T$

& so on.....

7. Col A: $\sqrt{28} \times \sqrt{58}$

Col B: 84

8. The roots of the equation " $x^2 - 5x + 4 = 0$ " are '1' and '4', then what are the roots of the equation $[(x - 2) + 4 = 0]$?
- 9.



- Given a rectangle as above with side given as 16, if a square ABCD is formed like above, then what is the area of the square?
10. A number when divided by 7 gives remainder 4 and when the same number is divided by 5, the remainder is 2. What is the least possible value of the number?
11. If $-1 < y < 0$, then which of the following is true
- A. $y < y^2 < y^3 < y^4$
 - B. $y^2 < y^4 < y^3 < y$
 - C. $y^4 < y^2 < y^3 < y$
- & so on.....

Last edited by drrajus faculty on Tue Aug 25, 2009 1:26 pm; edited 1 time in total

finally solutions are

1. **C**
2. **d**
3. -y intercept / -x intercept ..that gives ..-m/n
4. **A**
5. **4**
6. **(2/5)T**
7. **A**
8. **2, -1**

9.50

10.18

11. $Y^2 > Y^4 > Y^3 > Y$

Quant:

1. The points P, Q, R are 3 points in a plane, the distance PQ is 15 and distance QR is 10.

Col A: Distance between points P & R.

Col B: 20

2. If $|x-2| = 6$, then

Col A: $[(4-x)]^2$

Col B: $[(4+x)]^2$

3. If $x < 0$, then

Col A: $|x| + |-2|$

Col B: $|x - 2|$

(Similar to this)

4. In a college, 60% of all sophomores have liberal studies as their major subject, 24% of all sophomores history as their major and the rest have other subjects or have not yet chosen a major. If 55% of all sophomores chosen psychology as a course, then what is the minimum percent of all sophomores who have chosen psychology as a course and who also have liberal studies as their major subject?

5. If x is a non-zero integer, then

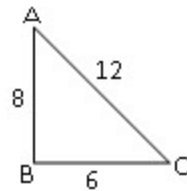
Col A: x^{-x}

Col B: $1/x^{-x}$

6. Col A: $[(-2)]^{-5}$

Col B: 0

7.



Given a figure similar to the above, if angle B is greater than 90°, then
Col A: Area of the triangle ABC
Col B: 24

Last edited by drrajus faculty on Tue Aug 25, 2009 2:01 pm; edited 2 times in total

i think first one is D is the answer.....we cant find the distance in a plane...

and 7th one is $s = (a+b+c)/2$ and area of triangle is $\sqrt{s(s-a)(s-b)(s-c)}$

den a,b&c values are 6,8 & 12 den $s = (6+8+12)/2 = 13$

venkatareddy

1. **Given that if $(k-3)$ is a multiple of 5 and $(k+2)$ is a multiple of 3. What is the value of K?**
Ans: 13, 28, 43..... Like this, there are so many numbers. So it's an optional based question.
2. **Col A: $(1/97) + (1/98) + (1/99) + (1/100)$**
Col B: $(1/25)$
Ans: A
3. **Given a parallelogram with sides lengths 20 cm and 4 cm.**
Col A: Area of the parallelogram
Col B: 80
Ans: D
4. **A rope of length x is cut into two parts. If one of the lengths exceeds the other by 5, then**
Col A: Length of the shorter one

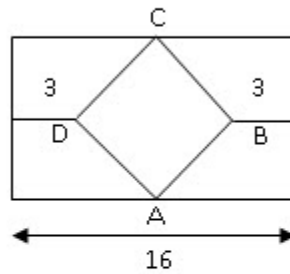
Col B: $x-5$

Ans: D

5. Given two TV channels 'A' and 'B'. The average viewing rate of channel 'A' is 24 and channel 'B' is 36. If the total number of viewers at a point equals 93,000 viewers, then what is the difference in number of viewers in 'A' and 'B'? (Similar to this)

Ans: 3720

6.



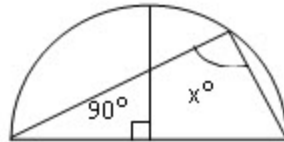
Given a rectangle as above with side given as 16, if a square ABCD is formed like above, then what is the area of the square?

Ans: 50

7. If 5 is added to some quantity 'k', it contributes 20% of the solution. What is 100% of the solution? (Something like this)

Ans: $25 + 5k$

8.



**Find the value of x ?
(Something like this)**

Ans: 90°

9. Given that the average of 4 numbers as 33. If a fifth number 'k' is added to the set, the average becomes 34. Find the value of 'k'?

Ans: 43

10. If a number is divided by 9, the remainder is 1 and if the same number is divided by 11 the remainder is 2. Find the number.

Col A: The number

Col B: 19

Ans: D

1. If $\frac{1}{x} - \frac{1}{y} = \frac{1}{xy}$

Col A: x

Col B: y

2. Given that, N is the five digit number which can contain number 1, 2, 3, 4, 5, 6, 7 without repetition.

Col A: N

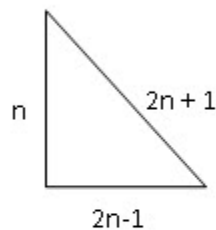
Col B: (7)(6)(5)(4)(3)(2)

3. There is a series 'S' with 'n' positive integers, where $|n-5| < 3$.

Col A: Mean of the n integers

Col B: Median of the series

4.



Given n , $2n-1$ and $2n+1$ as the sides of a right angled triangle. Find the length of the hypotenuse?

A. 8

B. 17

C. 19

& so on.....

5. Col A: $2^8 3^{15} + 2^8 3^{15}$

Col B: $6^9 3^6$

6. Col A: 0.2% of 300

Col B: $1/500$ of 300

7. Given that, the length of the rope A is between 1.2 to 3.2 and length of rope B is between 0.8 to 2.8.

Col A: Length of rope A

Col B: Length of rope B

8. The points P, Q, R are 3 points in a plane, the distance PQ is 15 and distance QR is 10.

Col A: Distance between points P & R.

Col B: 20


9. If the roots of the equation $2y^2 + 5y = 3$ are -3 and $1/2$, then what are the roots of the equation $2((y -$

$= 3$?

10. Given six teams like instrumental 1, instrumental 2,.....so on..... in a musical competition with 5 judges respective scores are 31, 24, 14, 10, 43 and 47. What is the minimum number of teams which must get 7 or more score from any one of the judge?

- A. 2
- B. 3
- C. 4
- & so on.....

11. In a rectangular coordinate system, if a line passes through the points (-10,-18), (20, 22) and (x, 2) the value of x?

- 1)c
- 2)a
- 3)c
- 4)b
- 5)c
- 6)c
- 7)d
- 8)  d
- 9)-1,5/2
- 10)????
- 11)5

pls 've a check n let knw if nethin wrong..thanku..[/b]

1. If $[(x)]^{(-1)} - [(y)]^{(-1)} = [(xy)]^{(-1)}$

Col A: x
Col B: y

$$[x^{-1}/(xy)^{-1}] - [y^{-1}/(xy)^{-1}] = 1$$

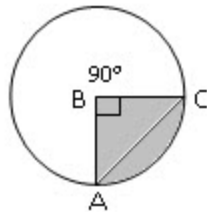
$$[1/y^{-1}] - [1/x^{-1}] = 1$$

$$x = y$$

isn't it ?

1. Given a number "7N" is a two digit number and is a multiple of 4. If "7N" lies between 45 and 75, then value of N?

2.



If the area of right angled triangle ABC is 2, then

Col A: Area of the shaded region

Col B: π

3. Given two points A(2, 3) and B(t, t). When the slope of the line joining the given two points is is negative

4. A person spends a part of amount of \$20,000 for buying. 40% of the remaining amount is given at 6% interest. The rest money is given at 10% interest. If the total interest the person gets is \$1250, then what is the amount of money he spent on buying?

5. Given that, there are two sets 'S' and 'T'. If all the numbers in set 'S' are in set 'T' and if the average of numbers in set 'S' is equal to the average of numbers in set 'T', then

Col A: Standard Deviation of set 'S'

Col B: Standard Deviation of set 'T'

6. The average of 7 numbers of a set is 33, if a new number 'k' is included in the set, then the average becomes 35.

Col A: The value of k

Col B: 47

7. If $x > y > z$, then

Col A: xy

Col B: yz

8. Given the surface area of a cube as 36.

Col A: Volume of the cube

Col B: 15

Please let me know if answers are wrong.

1. 2

2. C
3. Slope is $(t-3)/(t-2)$
4. 14570 (approximately)
5. D
6. A
7. D
8. B

1. Only multiple of 4 with 7 at its tens digits are $4*18=72$ and $4*19=76$. But here it must be less than 75 so only condition.

okies..actually i interpreted it to be $7*N$ and therefore $7*8$ is 56, a two digit no and multiple of 4.. $4*14=56$ and no b/w rite.. mite b depends on ans choice..

Quant:

1. A painting 4.5ft x 1.5ft is to be bordered with a 3inches wide wooden strip. What is the minimum length required to border the painting?

2. If $x < 0$ and $y \neq 0$, then

Col A: xy^2

Col B: 0

3. Col A: $0.99999/0.99998$

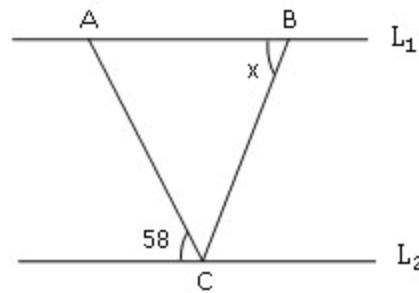
Col B: $1.0002/1.0001$

4. If $-8 \leq n \leq 10$; $m + n = 4$. Find the least possible value of mn ?

5. Col A: Standard Deviation of numbers having an average 40

Col B: Standard Deviation of numbers having an average 35

6.



If L_1 and L_2 are two parallel lines and $AB = BC$, then

Col A: x

Col B: 60

Please check if ans are wrong.

1. 156 (not 168).
2. B
3. B
4. -96
5. D
6. A

2. Try simple one 1.2/1.1 vs .99/.98 here first fraction is larger (just remove remove the points from infront of the this question.

If $a > b$ then and a and b are positive then $(a/b) > (a+1/b+1)$

Quant:

1. Given the standard deviation of a set of five numbers p, q, r, s, t , where $p = q$ is 'm' and standard deviation of numbers p, q, r, s, t , where $p \neq q$ is 'n'.

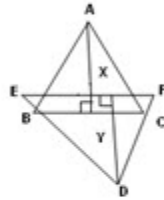
Col A: m

Col B: n

2. If a set of 10 parallel lines are intersected by a set of 13 other parallel lines, then find the number of parallel lines.

formed?
(Similar to this)

3.

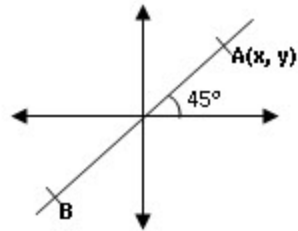


If $x = y$ and $EF \parallel BC$, then
Col A: Area of triangle ABC
Col B: Area of triangle DEF

4. On the occasion of a certain meeting, each member exchanged shake hand with one another. If the total number of shake hands were 21, then how many members are there in the meeting?
(Similar to this)

5. Given a figure PQRS of area 400 and a circle of diameter 40 is inscribed in it and the area outside the circle but inside the PQRS is shaded. Find the area of shaded region?
(Something like this)

6.



If point 'B' is mirror image of point 'A', then what is the 'B' coordinate?

- A. $(-x, y)$
- B. $(x, -y)$
- C. $(-x, -y)$
- & so on.....

7. Given A's speed as 50 km/h and B's speed as 55 km/h, if 'A' covers distance in 5 hours, then in how much time will B cover the same distance?

Last edited by drrajus faculty on Fri Aug 28, 2009 1:00 pm; edited 1 time in total

1. B
2. 108
3. D
4. 18
5. 400-400pi ??
6. There's not much information given since it is unclear if those lines are to be treated as the co-ordinate axes (Also what is the 45 degree mark for?)
7. 4.55 hrs

If anyone else gets any other answers apart from these please post them. We can discuss the same.

1. d(nothing can be said try the case of 1,2,3 and 1,1,3)
2. $3510(10c^2 \cdot 13c^2)$
3. b
4. not possible as value is non integer
5. 400-400pie(again data problem as it is -ve)
6. -x,-y
- 7 4.54

Quant:

1. Col A: $\frac{1}{97} + \frac{1}{98} + \frac{1}{99} + \frac{1}{100}$

Col B: $\frac{1}{25}$

2. Given three points in a coordinate system $P(x, 0)$, $Q(0, y)$ and $R(5, 5)$.

Col A: Distance between points P and R

Col B: Distance between points Q and R

3. Given that 'Y' is the sphere with 'y' as radius and 'X' is the sphere with 'x' as radius. If volume of sphere 'Y' is 8 times the volume of sphere 'X', then

Col A: x

Col B: y

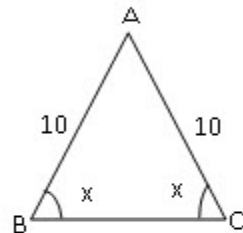
4. If $np \neq 0$, then

Col A: $(n + p)^2$

Col B: $(n^2 + p^2)$

5. Given x-intercept of a line as 'r' and y-intercept of a line as 'n'. What is the slope of the line?

6.

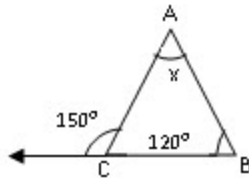


Col A: Length of third side

Col B: 10

7. What is the value of $(\sqrt[3]{7})^{-2} - (\sqrt[3]{8})^2)^{-1}$?

8.



What is the value of x?

9. Given that, if $(252)^5$ is divisible by 6^n ; n is a positive integer.

Col A: The largest possible integer value of 'n'

Col B: 10

10. Given that a person having two assets, sells one asset at $\$21 \times (10)^4$ making 25% profit and other at

loosing 25%. What is the difference between the sum of initial assets value and $\$42 \times (10)^4$?

11. Given a number "7N" is a two digit number and is a multiple of 4. If "7N" lies between 45 and 75, then of N?

Last edited by drrajus faculty on Fri Aug 28, 2009 1:35 pm; edited 2 times in total

1. a
2. d
3. a
4. d
5. $-n/m$
6. d
7. 56
8. 30

9. c
10 $(20-25/12)*21 * 10^4$
11 56

plz verify answer...

Quant:

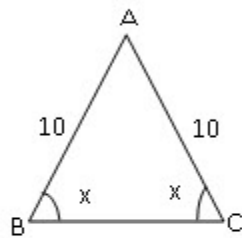
**1. Col A: $\frac{1}{97} + \frac{1}{98} + \frac{1}{99} + \frac{1}{100}$
Col B: $\frac{1}{25}$**

**2. Given three points in a coordinate system P(x, 0), Q(0, y) and R(5, 5).
Col A: Distance between points P and R
Col B: Distance between points Q and R**

**3. Given that 'Y' is the sphere with 'y' as radius and 'X' is the sphere with 'x' as radius. If volume of sphere 'Y' is 8 times the volume of sphere 'X', then
Col A: x
Col B: y**

**4. If $np \neq 0$, then
Col A: $(n + p)^2$
Col B: $(n^2 + p^2)$**

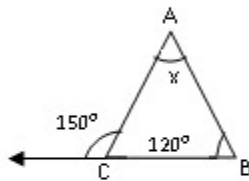
**5. Given x-intercept of a line as 'r' and y-intercept of a line as 'n'. What is the slope of the line?
6.**



**Col A: Length of third side
Col B: 10**

7. What is the value of $(\sqrt{7})^{-2} - (\sqrt{8})^2)^{-1}$?

8.



What is the value of x ?

9. Given that, if $(252)^5$ is divisible by 6^n ; n is a positive integer.

Col A: The largest possible integer value of ' n '

Col B: 10

10. Given that a person having two assets, sells one asset at $\$21 \times (10)^4$ making 25% profit and other at

loosing 25%. What is the difference between the sum of initial assets value and $\$42 \times (10)^4$?

11. Given a number "7N" is a two digit number and is a multiple of 4. If "7N" lies between 45 and 75, then of N?

Last edited by drrajus faculty on Fri Aug 28, 2009 1:35 pm; edited 2 times in total

1. a
2. d

- 3. a
- 4. d
- 5. $-n/m$
- 6. d
- 7. 56
- 8. 30
- 9. c
- 10. $(20-25/12)*21 * 10^4$
- 11. 56

plz verify answer...

Quant:

1. Given volume of sphere is $\frac{4}{3} \pi r^3$. If the radius of sphere is 10, find the volume?

2. Given 'n' is an integer. If $n \neq 0$, then

Col A: $2^2 \times n$

Col B: $2^3 \times n$

3. Given a Table.

Rank ---- No. of people

1 ----- 10

2 ----- 30

3 ----- 140

4 ----- 25

5 ----- 30

Col A: Average Rank

Col B: 3

4. Given a set of numbers -14, -7, -2, 12, 16, 20.

I. Standard Deviation > Mean

II. Standard Deviation < Median

III. Mean = Median

A. I only

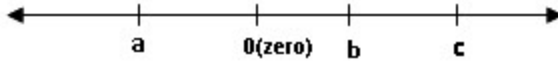
B. II only

C. I and II

& so on.....

(Similar to this)

5.



- A. $a + b > a + c$
- B. $a + c > b + c$
- C. $b + c < a$
- D. $ab > bc$
- E. $ab > ac$

6. How many cubes with least possible dimensions can be formed from a rectangular cuboid of dimensions

- A. 14
- B. 42
- C. 126

& so on.....

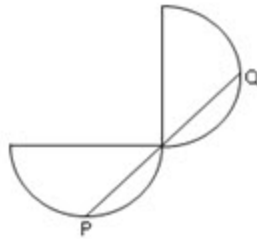
7. Given area of a rectangle as 25,000. If the length of the rectangle is increased by 5% and breadth is increased by 10%, then what is the new area of the rectangle?

8. If $25\%(20\%(x)) = 1450$, then what is the value of x ?

- A. 29
- B. 290
- C. 2900
- D. 29000
- E. 290000

(Similar to this)

9.



Given 'P' and 'Q' as midpoints on the circumference of two semi-circles of same radius '2', find the distance 'Q'?

10. Given a table

Interval of Age ----- Number of people

0 – 9 -----	10
10 – 19 -----	140
20 – 29 -----	12
30 – 39 -----	16
40 – 49 -----	18
50 – 59 -----	5

What is the mode age interval?

- A. 10 – 19
- B. 30 – 39
- C. 40 – 49
- D. 50 – 59
- E. Cannot be determined

11. For which values of 'n' the following equation are odd.

- A. $n^2 + 1$
 - B. $n^3 + 1$
 - C. $n^4 + 1$
 - D. $n^5 + 1$
 - E. Cannot be determined
- (Similar to this)

12. Given a square inscribed in a circle of radius 'r', find the perimeter of the square?

Last edited by drrajus faculty on Fri Aug 28, 2009 1:48 pm; edited 2 times in total

let me answer the given questions ,,,correct me if im wrong

$$1.(4000/3)\pi$$

2.d
3.c
4.
5. it can be checked the answer for values -2 2 and 10
6.42
7.26125 approx i think so...
8.29,000
9.no values r given yaar....
thn lets take some values
take radius as R..then **$pq=2\sqrt{2} R$** ..wat say dude ny queries

10.A

11..q is not correct..
12. $4\sqrt{2} R$

3.c is an easy mistake done by everyone dude...

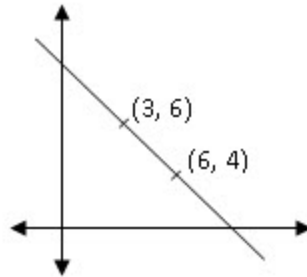
ans is A

formula: avg rank = ((count of rank 1 * 1) + (count of rank 2 * 2) + (count of rank 3 * 3) ...)/ total count across all r

4 is A

can u plz xplain 6???

1. **Given that a number 'N', when divided by 5 gives remainder 4 and when divided by 11 gives remainder 3, find the number?**
2. **Given $a_1=2$ and if $a_n=a(n-1)+4$, then what is the value of a_{19} ?**
- 3.



Find the y-intercept of line?

4. Given a rectangle of area 25,000. If the length of the rectangle is increased by 15% and breadth 5%.

Col A: Area of the new rectangle

Col B: given some value (XXX)

5. Given that, a committee of 5 members is to formed from 5 faculty members and 6 students. Find the number of ways of selecting the committee, such that there should be 3 students and 2 members?

6. The value of $[(\sqrt{7})]^{(-1)} - [(\sqrt{8})]^1 = ?$

7. Given that, if 252^5 is divisible by $6n$; n is a positive integer.

Col A: The largest possible integer value of 'n'

Col B: 10

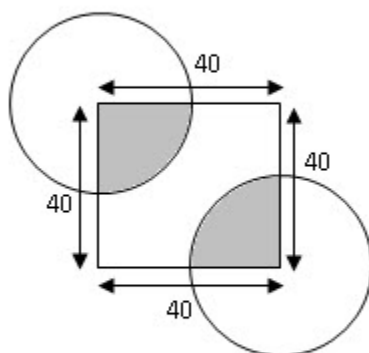
8. What is the value of $1/(1/6 + 1/6 + 1/6)$?

9. Given a right angle triangle with sides n , $2n - 1$ and $2n + 1$. Find the value of x ?

10. Col A: $10^{18} - 10^{16}$

Col B: 11×10^{16}

11.



Col A: Area of shaded region

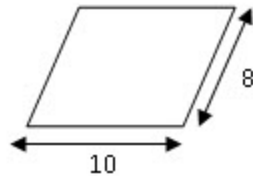
Col B: 1000

12. Given a rope of length 10m and is divided into four parts.

Col A: Sum of length of longest part and shortest part

Col B: 5

13.



Col A: Area of parallelogram
Col B: some value (XXX)

14. If $a_n = 1/(n - 1/(n+1))$, then what is the value of a_{18} ?

And Few Previous Database Questions Appeared.

Last edited by drrajus faculty on Fri Aug 28, 2009 2:12 pm; edited 3 times in total

1.) ders no single digit no. so the 1st no. wich satisfies d condition is 14.

2.) 74

3.) 8

5.) $6C3 * 5C2$

6.) $(1 - \sqrt{56})/\sqrt{7}$

9.) if 'n' is wat is asked den d answer is 8

10.) A

11.) B

12.) D

13.) how to find the area withot knowing the height.. plz explain..!!

14.) 19/17

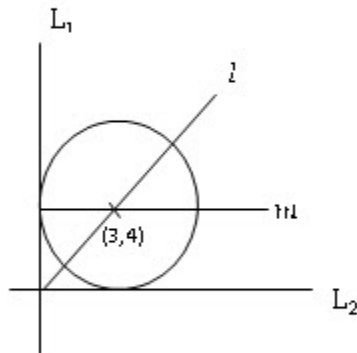
Quant:

1. If $a_n = \frac{1}{n} - \frac{1}{n-1}$, then

Col A: $\frac{1}{a_4} + \frac{1}{a_5} + \frac{1}{a_6} + \frac{1}{a_7} + \frac{1}{a_8} + \frac{1}{a_9}$

Col B: $\frac{1}{6}$

2.



Given that, L_1 and L_2 are two tangents to the circle and point (3, 4) is the centre of the circle

Col A: Slope of the line l

Col B: 1

3. Given that 'x' books were bought for \$1 each and y books were bought for \$3 each, how many maximum books can be bought for \$40?

4. Col A: $\frac{1}{97} + \frac{1}{98} + \frac{1}{99} + \frac{1}{100}$

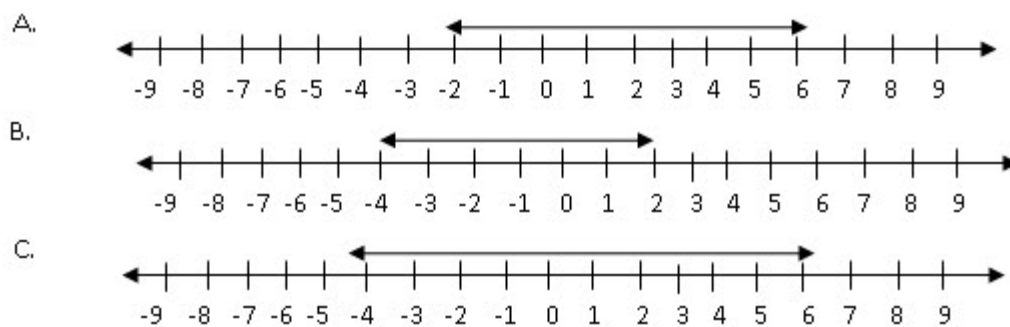
Col B: $\frac{1}{25}$

5. Col A: Area of the circle whose diameter is 10

Col B: $\frac{2}{3}$ times the area of a square whose diagonal length is 8 (similar to this)

6. If $-1 < a < 0$, then what is the median of the set $A: \{a^2, a^3, a, -1, 1\}$?

7. If $|x + 1| < 3$, then what is the range of 'x' value?



& so on.....

Last edited by drrajus faculty on Fri Aug 28, 2009 2:21 pm; edited 1 time in total

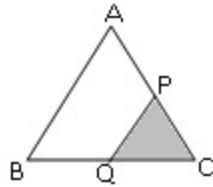
Quant:

1. Given $f(x) = x + 1$

Col A: $f(x^2)$

Col B: $[(x + 1)]^2$

2.



Given the ratio of area of triangle ABC to PQC as 9:1. What is the ratio of their sides?

3. Given slope of an equation $y = mx + c$ as $-3/4$. Which of the following equation's slope is not equal to the slope?

**And five equations are given as options.
(Something like this)**

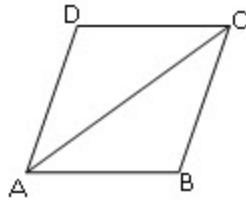
4. What is the value of $1/(1/6 + 1/6 + 1/6)$?

5. Given the probability of happening an event A is 0.80 and event B is 0.60.

Col A: The Probability of happening event A or B

Col B: 0.92

6.



If $BC = AD$, then

Col A: Angle ABC

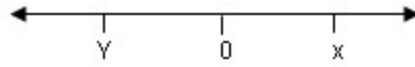
Col B: Angle ADC

7. Given equations of two lines, line 'l' as $3x + 5y + 3 = 0$ and line 'm' as $3x - 5y + 3 = 0$.

Col A: Slope of line 'l'

Col B: Slope of line 'm'

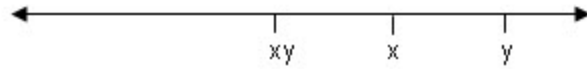
8.



Col A: xy
Col B: $x + y$

9. Given the average of 6 persons age as 32. If a 7th person of age 'k' is included, the average becomes value of 'k'?
(Similar to this)

10.



Col A: Distance between 'xy' and 'x'

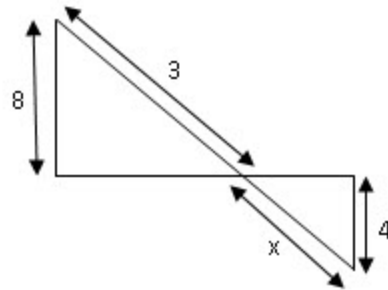
Col B: Distance between 'x' and 'y'

Quant:

1. What is the value of $|-1| - |-5|$?

Ans: -4

2.



What is the value of x ?

Ans: Cannot be determined from the given data.

If the line of length 8 is parallel to line of length 4, then the answer is $3/2 = 1.5$

3. Given that, if 252^5 is divisible by 6^n ; n is a positive integer.

Col A: The largest possible integer value of ' n '

Col B: 10

Ans: C

4. Given that, perimeter of square is equal to perimeter of circle.

Col A: (Area of square)/(Area of circle)

Col B: 1

Ans: B

5. If $n < 0$ and $ab = 1$, then

Col A: a^n

Col B: $1/b^n$

Ans: C

6. Given $a_1 = 3$ and if $a_n = a_{(n-1)} + 4$, then

Col A: a_{20}

Col B: 79

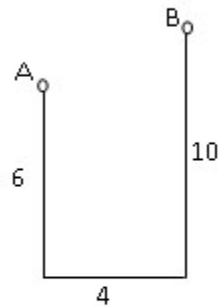
Ans: C

7. Col A: $|x - 1|$

Col B: $|x| + 1$

Ans: D

8.



As shown above, there are two poles of length '6' and '10'. Given 'A' and 'B' as two lights on the poles. Find the distance between the lights ('A' and 'B')?

Ans: $4\sqrt{2}$

9.

For figure Check out the below.

http://www.drrajusgre.com/quant_database.php

If area of the square shown is 'x', then what is the area of the triangle?

A. $2x$

B. $\frac{1}{2}x$

C. $\frac{2}{3}x$

D. $\frac{1}{4}x$

& so on....

Ans: $\frac{3x}{4}$

10. Given the standard deviation of a set of four numbers as zero. If each number in the set is divided by 7, then what is the new standard deviation?

Ans: Zero

11. If $a(n) = \frac{1}{(n+1)}$, then find the value of $a_4 + a_5 + a_6 + a_7$?

Ans: 0.63(approx)

12. Col A: $[(a + b)]^3$

Col B: $(a^3 + b^3)$

Ans: D

1. -4

2. hypotunes cant be less than the side

3. A

4. B

5. C

6. C

7. D

8. $4\sqrt{2}$

9. $(\frac{2}{3})^x$

10. dont know , i think its zero can any one explain

11. $\frac{557}{840}$

12. D

correct me if i done wrong

I think

3. C

Beuase

$$252^5 = (2^2 * 3^2 * 7)^5 = (2*3)^{10} * 7^5 \text{ ---1}$$

$$\text{denominator} = 6^n = (2*3)^n \text{ ---2}$$

thus for $\frac{1}{2}$ to give the lowest integer value i.e for n to be max, $n = 10$ so that only 7^5 remains in the numerator.

hence C

Quant:

1. If $n \neq 0$, then which of the following is odd?

I. $n + 3$

II. $n^2 + 4$

III. $n^3 + 5$

A. Only I

B. Only II

C. I and III

& so on...

2. In an equation $x/7 + w/28 = 1$, find the number of positive integer solutions?

A. 4

B. 5

C. 6

& so on.....

3. Col A: $(5^{20} - 5^{19})/20$

Col B: 5^{18}

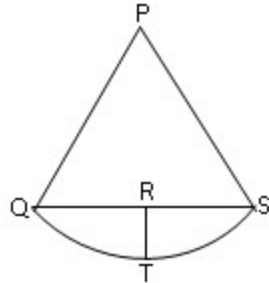
4. The value of $(3.8 \times 6^{25} - 0.24 \times 6^{26})$ is

5. Col A: $(n^3 (n - 1))/2$

Col B: $(n^3 (n + 1))/2$

6. Given a square is inscribed in a circle of radius 'r'. Find the perimeter of square in terms of 'r'?

7.



Given a figure of a sector of circle, with radius as 5cm and RT length as 1cm, then

Col A: QS

Col B: 6

(Similar to this)

8. Given that, there are 3 hooks and 5 paintings. In how many ways, can these 5 paintings be arranged among 3 hooks?

9. Given three points (12, 14), (-3, -13) and (k, 2) which are on the same [straight line](#). Find the value of k?

10. The mean of 7 numbers is 33. If a new number 'k' is added, the average increases to 35.

Col A: k

Col B: 47

11. If 'k' is the last digit of 3^n and 'x' is the last digit of 7^n , then

Col A: $|k - x|$

Col B: 3

12. Given T.S.A of a cube as 36.

Col A: Volume of the cube

Col B: 15

13. For all the odd numbers, the numbers n, n^2-1 are multiples of which of the following?

A. -8

B. -9

C. -10

D. -11

E. -12

Last edited by drrajus faculty on Sat Aug 29, 2009 12:25 pm; edited 1 time in total

- 1.
- 2.
- 3.C
4. $2.36 \times (6)^{25}$
- 5.
- 7.C
- 8.60
9. $144/27$
- 10.A
- 11.B
- 12.B
- 13.???

Quant:

1. Given three points (5, 3), (x, 4) and (3, 2) which lie on a same line. Find a value of x?

2. If $2n+1$ is the median of seven consecutive integers, then what is the mean of the integers?

3. If $x < y < z$, then

Col A: xy

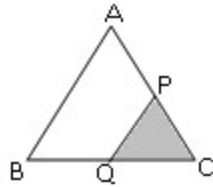
Col B: yz

4. A person having two assets sells one asset at \$21 X 104 making 25% profit and other at \$21 X 104 loosing 25%,

Col A: The difference between the sum of initial assets and \$42 x 104

Col B: xxxxx (some value)

5.



If the ratio of area of triangle ABC to PQC is 9:1, then what is the ratio of their sides?

A. 1: 1

B. 3: 1

C. 9: 1

& so on.....

(Appropriate Question)

6. Given $P = (x)(x+1)(x+2)(x+3)$; where x is a positive integer, then

Col A: The remainder when P is divided by 3

Col B: 1

1) $X=7$

2) $2n+1$

3) D

4)DIFFERENCE 1274

5)????????????????

6) B

venkatareddy

\1. Given a fraction $20/7$. What is the digit at 57th decimal place of the given fraction value?

Ans: 7

2. In a triangle the three angles were given as X , X & Y . If the average of two angles is 65, then what is the value of 'Y'?

A. 65

B. 75

C. 80
& so on.....
Ans: C

3. Given $f(x) = x^2 + x$, then
Col A: $f(x+1)$
Col B: $f(x) + f(1)$
Ans: D

4. If the retail price is 35% more than wholesale price and if the retailer sells it with a profit of wholesale price, then what percentage of discount did he offer to the customer?
(Something like this)
Ans: 10.3%

5. If 3^{16} is a factor of 63^n , then what could be the least value of n ?
Ans: 8

6. If an article cost is 256\$ in 1989 and is increased by 80% when compared to 1975, then what was its cost in 1975?
Ans: \$142.2

7. If it takes 'a' hrs for 'x' to repair 1 machine and 'b' hrs for 'y' to repair 1 machine, then how many hours will they take to repair 750 machines, if they work together?
Ans: $750ab/a+b$

8. If for a set of 15 elements, 'a' is mean and 'b' is median, $a > b$;
If for another set of 25 elements, 'c' is mean and 'd' is median, $c > d$;
then, the
Col A: Combined Mean of the sets
Col B: Combined Median of the sets
Ans: D

9. If the standard deviation of x , y & z is 'a' and the standard deviation of $x+5$, $y+5$ & $z+5$ is 'b', then
Col A: a
Col B: b
Ans: C

10. A regular hexagon ABCDEFG is inscribed in a circle. If BE is the diameter of the circle, then
Col A: Length of BE
Col B: Length of BCD
Ans: C

thanx manoj!!! i hav difficulty in solving the below ques...

6. If $1 < r < s < t < 2$, then $r + (s \cdot 10^6) + (t \cdot 10^{12})$ is related to which of the following ?
A. $(r+s+t) \cdot 10^{12}$
B. t^{12}
C. $(s+t) \cdot 10^8$
& so on...

can u plz solve dis ????

6. If $1 < r < s < t < 2$, then $r + (s \cdot 10^6) + (t \cdot 10^{12})$ is related to which of the following ?

A. $(r+s+t) \cdot 10^{12}$

B. t^{12}

C. $(s+t) \cdot 10^8$

& so on...

i believe ans for this $t \cdot 10^{12}$ because the remaining terms are having power of 6. if we expand and add we get 150000 is near to $t \cdot 10^{12}$. but for other options we get other ans

manoj

Quant:

1. Given a fraction $20/7$. What is the digit at 57th decimal place of the given fraction value?

2. In a triangle the three angles were given as X, X & Y. If the average of two angles is 65, then what is the value of 'Y'?

A. 65

B. 75

C. 80

& so on.....

3. Given $f(x) = x^2 + x$, then

Col A: $f(x+1)$

Col B: $f(x) + f(1)$

4. If the retail price is 35% more than wholesale price and if the retailer sells it with a profit of 21% with the retail price, then what percentage of discount did he offer to the customer?
(Something like this)

5. If 3^{16} is a factor of 63^n , then what could be the least value of n?

6. If an article cost is 256\$ in 1989 and is increased by 80% when compared to 1975, then what was its cost in 1975?

7. If it takes 'a' hrs for 'x' to repair 1 machine and 'b' hrs for 'y' to repair 1 machine, then how many hours repair 750 machines, if they work together?

8. If for a set of 15 elements, 'a' is mean and 'b' is median, $a > b$;
If for another set of 25 elements, 'c' is mean and 'd' is median, $c > d$;
then, the

Col A: Combined Mean of the sets

Col B: Combined Median of the sets

9. If the standard deviation of x, y & z is 'a' and the standard deviation of $x+5$, $y+5$ & $z+5$ is 'b', then

Col A: a

Col B: b

10. A regular hexagon ABCDEFG is inscribed in a circle. If BE is the diameter of the circle, then

Col A: Length of BE

Col B: Length of BCD

Admin,
drrajusgre.com

1. 7
2. 80
3. D
4. ?
5. may be 8
6. 51.2
7. $750ab/(a+b)$
8. ?
9. may be A
10. ?

Quant:

1. If $x < 0$ then the value of $(-x)(-x)/(-x)$ is

A. $|x|$

B. x

C. x^2

D. 0

& so on...

Ans: A

2. In every month, a hospital is opened only in last week. If 10 people travel to hospital, then what is the probability that at least two people travel on the same day?

A. $1/7$

B. $\frac{2}{7}$
C. 1
D. $\frac{6}{7}$
& so on...

Ans: C

3. If $t^4 = 16$, then

Col A: t

Col B: 2

Ans: D

4. If the point (1, 2) lie on the line $mx + ky = 3$, then

Col A: k

Col B: 0

Ans: D

5. If 'X' invests Rs.5000 at the rate of 6% for annual & 'Y' invests Rs.6000 at the rate 6% for semiannual, then

Col A: The interest 'X' gets for 1year

Col B: The interest 'Y' gets for 1year

Ans: B

6. If $1 < r < s < t < 2$, then $r + (s \cdot 10^6) + (t \cdot 10^{12})$ is related to which of the following ?

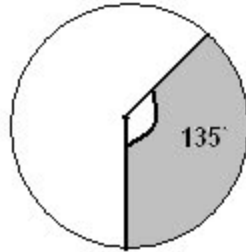
A. $(r+s+t) \cdot 10^{12}$

B. t^{12}

C. $(s+t) \cdot 10^8$

& so on...

7.



If the circumference of the circle is 16π , then find the area of shaded region?

Ans: 75.36

8. Given a ladder of length 5mts and it is displaced i.e slanted downwards, such that it falls 'x' mts in height length increases by 'y' mts.

Col A: x

Col B: y

Ans: B

for 1st question $-x^*-x/-x=-x$

given $x < 0$ so always the value will be x. correct me

can u explain me the 2nd one.

2. In every month, a hospital is opened only in last week. If 10 people travel through hospital, then what is the probability that at least two people travel on the same

A. $1/7$

B. $2/7$

C. 1

D. $6/7$

& so on...

Ans: C

atleast means 1-atmost

atleast 2 peoples means opposite of atmost 1 people
 so probability of atmost 1 people is 0

so atleast 2 peoples = $1 - \text{atmost } 1 \text{ people}$
 $= 1 - 0$
 $= 1$

Quant:

1. If $x < 0$ then the value of $(-x)(-x)/(-x)$ is

A. $|x|$

B. x

C. x^2

D. 0

& so on...

2. In every month, a hospital is opened only in last week. If 10 people travel through bus to hospital, then probability that at least two people travel on the same day?

A. $1/7$

B. $2/7$

C. 1

D. $6/7$

& so on...

3. If $t^4 = 16$, then

Col A: t

Col B: 2

4. If the point (1, 2) lie on the line $mx + ky = 3$, then

Col A: k

Col B: 0

5. If 'X' invests Rs.5000 at the rate of 6% for annual & 'Y' invests Rs.6000 at the rate 6% for semiannual, then

Col A: The interest 'X' gets for 1 year

Col B: The interest 'Y' gets for 1 year

6. If $1 < r < s < t < 2$, then $r + (s \cdot 10^6) + (t \cdot 10^{12})$ is related to which of the following ?

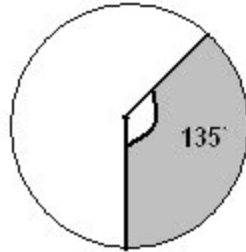
A. $(r+s+t) \cdot 10^{12}$

B. t^{12}

C. $(s+t) \cdot 10^8$

& so on...

7.



If the circumference of the circle is 16π , then find the area of shaded region?

8. Given a ladder of length 5mts and it is displaced i.e slanted downwards, such that it falls 'x' mts in height length increases by 'y' mts.

Col A: x

Col B: y

1. B
2. D
3. D
4. D
5. may be B
6. may be B
7. 6π
8. D

manoj

Quant:

1. If $x^2 + y^2 = 10$ and $xy=2$, then

Col A: $(x-y)^2$

Col B: 6

Ans: C

2. If $p = (5/k)$ & $q = (3/k)$, then the value of $(p/q)^2$ is?

Ans: 25/9

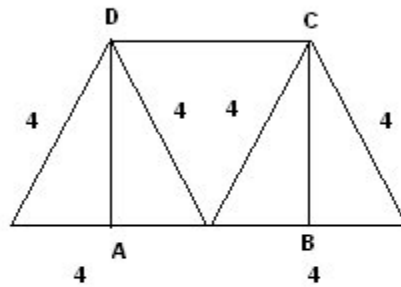
3. If $x < y < z$, then

Col A: xy

Col B: yz

Ans: D

4.



Given a figure of two equilateral triangles of side length 4, which forms a square ABCD as above

Col A: Area of square

Col B: Perimeter of square

Ans: C

5. Given volume of the cube and asked to find the area of the cube.

6. If $t^4 = 16$, then

Col A: t

Col B: 2

Ans: D

7. In a rectangular co-ordinate system, if the point (5, 5) is equidistant from point (x, 0) and point (y, 0), then

Col A: x-intercept

Col B: y-intercept

Ans: D

i feel da ans 4 da 4th ques must be "B".....bcoz..as we know from da ques dat height of the equilateral triangle gives us the side of the square as we know height of the equilateral triangle is given by $\frac{\sqrt{3}}{2}a$ (a =side of an equi triangle)....here by using this we get da side of a square as $2\sqrt{3}$

Now the area is $\dots [2\sqrt{3}]^2 = 12$

perimeter = $4 \cdot [2\sqrt{3}] = 13.8$ hence **B** is grater

Quant:

1. If $x^2 + y^2 = 10$ and $xy=2$, then

Col A: $(x-y)^2$

Col B: 6

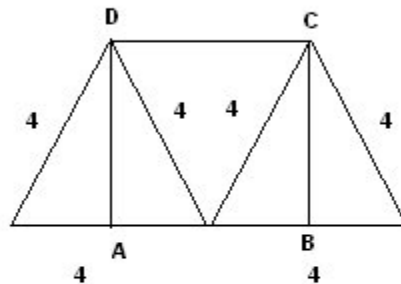
2. If $p = (5/k)$ & $q = (3/k)$, then the value of $(p/q)^2$ is?

3. If $x < y < z$, then

Col A: xy

Col B: yz

4.



Given a figure of two equilateral triangles of side length 4, which forms a square ABCD as above

Col A: Area of square

Col B: Perimeter of square

5. Given volume of the cube and asked to find the area of the cube.

6. If $t^4 = 16$, then

Col A: t

Col B: 2

7. In a rectangular co-ordinate system, if the point (5, 5) is equidistant from point (x, 0) and point (y, 0), then

Col A: x-intercept

Col B: y-intercept

Admin,
drrajusgre.com

Quant:

1. The greatest prime number by which $(64^2 - 57^2)$ is divisible?

A. 7

B. 11

C. 13

& so on...

Ans: B

2. If the probability of some X person's success rate in doing a task is 0.8 and Y person is 0.7, then what is the probability that neither can do the task?

Ans: 0.06

3. Given a circle on coordinate axis with origin (0, 0) and radius 5. Find the number of points we could find on the circle.

Ans: 12

(Provided----- if the points taken are integers)

4. If $10^{11} + 10^8 + 10^9 + 10^{10}$ is divisible by 11, then

Col A: The Remainder

Col B: 0

Ans: C

5. If the mean of x_1, x_2, x_3, x_4 & x_5 is 'm' & if the mean of $x_1 - m, x_2 - m, x_3 - m, x_4 - m$ & $x_5 - m$ is 'p', then

Col A: m

Col B: p

Ans: D

6. If $x > 1$ and $0 < y < 1$, then

Col A: $x^4 * y^4 / x^2$

Col B: $x^2 * y^4$

Ans: C

7. $\{(-x)*(-x)\} / (-x) =$

A. $-|x|$

& four more options were given

Ans: A

8. In total of 2000 students, if 'x' students passed in maths, 'y' students passed in physics and 'z' students then how many students passed in neither of the subjects?

Ans: $2000 - (x+y+z)$

9. If 6 members are to be selected in group of 4 children and 4 men, then

Col A: Probability of selecting 2 children and 4 men

Col B: Probability of selecting 3 children and 3 men

Ans: B

10. Col A: $(x^2 - y^2) / (x-y)$

Col B: $x + y$

Ans: C

11. If a solid cylinder of dimensions $4 \times (1/2) \times (1/2)$ is converted into a solid cylinder of dimensions $8 \times 2 \times h$ the value of 'h'?

Ans: $1/16$

Quant:

1. The greatest prime number by which $(64^2 - 57^2)$ is divisible?

A. 7

B. 11

C. 13

& so on...

2. If the probability of some X person's success rate in doing a task is 0.8 and Y person is 0.7, then what is the probability that neither can do the task?

3. Given a circle on coordinate axis with origin (0, 0) and radius 5. Find the number of points we could find on the circle with integer coordinates?

4. If $10^{11} + 10^8 + 10^9 + 10^{10}$ is divisible by 11, then

Col A: The Remainder

Col B: 0

5. If the mean of x_1, x_2, x_3, x_4 & x_5 is 'm' & if the mean of $x_1 - m, x_2 - m, x_3 - m, x_4 - m$ & $x_5 - m$ is 'p', then

Col A: m

Col B: p

6. If $x > 1$ and $0 < y < 1$, then

Col A: $x^4 * y^4 / x^2$

Col B: $x^2 * y^4$

7. $\{(-x)*(-x)\} / (-x) =$

A. $-|x|$

& four more options were given

8. In total of 2000 students, if 'x' students passed in maths, 'y' students passed in physics and 'z' students then how many students passed in neither of the subjects?

9. If 6 members are to be selected in group of 4 children and 4 men, then

Col A: Probability of selecting 2 children and 4 men

Col B: Probability of selecting 3 children and 3 men

10. Col A: $(x^2 - y^2) / (x - y)$

Col B: $x + y$

11. If a solid cylinder of dimensions $4 \times (1/2) \times (1/2)$ is converted into a solid cylinder of dimensions $8 \times 2 \times h$, then the value of 'h'?

Admin,
drrajusgre.com

Quant:

1. A line was drawn through a point on x-axis (a, 0) and a point on y-axis (0, b). A line parallel to x-axis was **distance between** (0, b) to this line was k and if the point where this **parallel line** intersects the earlier line find the value of x and y?

Ans: $x = ak/b$; $y = b - k$

2. If the median of 7 consecutive even integers is $2n+2$, then what is the mean?

Ans: $2n + 2$

3. Given 60% of the sophomores took up liberal arts, 24% took sciences and rest took both or neither. If 5% of the sophomores took psychology, then what percentage of arts **students** took psychology?

Ans: Cannot be determined

5. If $t = \{2, 3, 4, 5, 6, 7, 8\}$, then the number of 4 digit numbers that can be formed without repetition is

Ans: $7P4$

6. If $0.6 < x < 0.8$, then

Col A: x

Col B: $(0.73)^2$

Ans: A

7. If $|x| < |y|$, then

A. $x + y = 0$

B. $x + y \neq 1$

C. $x < y$

D. $x - y = 0$

& so on...

Ans: Not in the given options

8. Given a semicircular path. If Joe traveled through curved area in 2 min and Jack traveled through [straight](#) then

Col A: Average Speed of Joe

Col B: Average Speed of Jack

Ans: B

9. Col A: x

Col B: x^3

Ans: D

10. Given $3 + 33 + 333 + 3333 + \dots$ up to 10 terms. After the summation, what is the value in hundred

Ans: 7

11. If the retail price is 35% more than wholesale price and if the retailer sells it with a profit that of [wholesale price](#), then what percentage of discount did he offer to the customer?
(Something like this)

Ans: 10.3%

@

1600gre

In the 11th question he has asked us to find the Percentage of Discount given NOT the AMOUNT OF DISCOUNT
i.e.,

135---100%

121----- ?

=>89.629

=>100-89.629

=>10.37%

(OR)

135---100%

14----- ?

=>10.37%

If 14percent people have ovens and 27percent have washing machines, then what is the range of the probability of neither oven nor [washing machines](#)?

A. 0-14percent

B. 27-41percent

C. 59-73percent

D. 73-86percent

Quant:

1. A line was drawn through a point on x-axis ($a, 0$) and a point on y-axis ($0, b$). A line parallel to x-axis was drawn at a [distance between](#) ($0, b$) to this line was k and if the point where this parallel line intersects the earlier line is (x, y) find the value of x and y ?

2. If the median of 7 consecutive even integers is $2n+2$, then what is the mean?

3. Given 60% of the sophomores took up liberal arts, 24% took sciences and rest took both or neither. If 5

sophomores took psychology, then what percentage of arts students took psychology?

5. If $t = \{2, 3, 4, 5, 6, 7, 8\}$, then the number of 4 digit numbers that can be formed without repetition is

6. If $0.6 < x < 0.8$, then

Col A: x

Col B: $(0.73)^2$

7. If $|x| < |y|$, then

A. $x + y = 0$

B. $x + y \neq 1$

C. $x < y$

D. $x - y = 0$

& so on...

8. Given a semicircular path. If Joe traveled through curved area in 2 min and Jack traveled through straight then

Col A: Average Speed of Joe

Col B: Average Speed of Jack

9. Col A: x

Col B: x^3

10. Given $3 + 33 + 333 + 3333 + \dots$ up to 10 terms. After the summation, what is the value in hundred

11. If the retail price is 35% more than wholesale price and if the retailer sells it with a profit of 21% with wholesale price, then what percentage of discount did he offer to the customer?
(Something like this)

Admin,
drrajusgre.com

Quant

1. For $(-x)(-x) / (-x)$, $x < 0$ the value of x is

A. $|x|$

B. $-|x|$

& 3 more options

Ans: B

2. On wholesale, if a shopkeeper had a 30% increase followed by 20% decrease, then how much was his total decrease?

Ans: 4% Increase

3. Given a circle with triangle ABC inscribed in it. If AB = diameter & CB = 5, then find the area of triangle?

Ans: From the given data, it cannot be determined.

4. The Value of $0.00865 = ?$

A. 8.6×10^{-1}

B. 8.6×10^{-2}

& 3 more options were given

Ans: 8.6×10^{-3}

5. If 'n' is a positive integer, then

Col A: $(2r)^n$

Col B: $(2r)^{3n}$

Ans: D

6. If the probability of raining on 1st day is 0.8 and the probability of raining on 2nd day is 0.6, then what is the probability of not raining on any of these days?
(Something like this)

Ans: 0.08

7. The area of the triangle formed by x-axis, y-axis and the line $x+y = 4$ is ?

Ans: 8

8. Given 'A' has 'x' toys inserted in 'y' boxes and 'B' has 'y' toys inserted in 'x' boxes.

Col A: Number of toys 'A' has - Number of toys 'B' has

Col B: 0

Ans: C

9. If $(x + y) = 8$ and $2*(y^2) = 32$, then

Col A: x

Col B: 4

Ans: D

10. The largest prime number by which $64^2 - 57^2$ is divisible?

A. 7

B. 11

C. 13

& so on....

Ans: B

11. If $\ln+2l = n+6$, then find the possible value of n?

Ans: -4

12. If $a \# b = 3a + 2b$, then

Col A: $(0 \# 1) \# 2$

Col B: $0 \# (1 \# 2)$

Ans: B

13. Set A: {15, 16, 17, 18, 19, 20, 21}

Set B: {10, 11, 12, 13, 14}

If each number of set A is added to a number of set B, then (after the addition) how many numbers are unique?

Ans: 11

14. Given a big square, in which 16 small squares were inscribed. The small ones which had only 1 side on the perimeter of big square was shaded. If n is the number of such small shaded squares in a big square ($n > 4$), what is the actual number of small squares within a big square?

A. $4(n-4)$

B. $4(n-2)$

C. $2(n-4)$

D. $2(n-2)$

& so on.....

(something like this)

Ans: A

Admin,
drrajusgre.com

Quant

1. For $(-x)(-x) / (-x)$, $x < 0$ the value of x is

A. $|x|$

B. $-|x|$

& 3 more options

2. On wholesale, if a shopkeeper had a 30% increase followed by 20% decrease, then how much was his total percentage decrease?

3. Given a circle with triangle ABC inscribed in it. If AB = diameter & CB = 5, then find the area of triangle ABC.

4. The Value of $0.00865 = ?$

A. 8.6×10^{-1}

B. 8.6×10^{-2}

& 3 more options were given

5. If ' n ' is a positive integer, then

Col A: $(2r)^n$

Col B: $(2r)^{3n}$

6. If the probability of raining on 1st day is 0.8 and the probability of raining on 2nd day is 0.6, then what is the probability of raining on both days?

of not raining on any of these days?
(Something like this)

7. The area of the triangle formed by x-axis, y-axis and the line $x+y = 4$ is ?

8. Given 'A' has 'x' toys inserted in 'y' boxes and 'B' has 'y' toys inserted in 'x' boxes.

Col A: Number of toys 'A' has - Number of toys 'B' has

Col B: 0

9. If $(x + y) = 8$ and $2*(y^2) = 32$, then

Col A: x

Col B: 4

10. The largest prime number by which 64^2-57^2 is divisible?

A. 7

B. 11

C. 13

& so on....

11. If $\ln+2l = n+6$, then find the possible value of n?

12. If $a \# b = 3a + 2b$, then

Col A: $(0 \# 1) \# 2$

Col B: $0 \# (1 \# 2)$

13. Set A: {15, 16, 17, 18, 19, 20, 21}

Set B: {10, 11, 12, 13, 14}

If each number of set A is added to a number of set B, then (after the addition) how many numbers are un

14. Given a big square, in which 16 small squares were inscribed. The small ones which had only 1 side co
perimeter of big square was shaded. If n is the number of such small shaded squares in a big square($n>4$)
actual number of small squares within a big square?

A. $4(n-4)$

B. $4(n-2)$

C. $2(n-4)$

D. $2(n-2)$

& so on.....

(something like this)

1Q.A

2Q.4% PROFIT

3Q. DIAMETER R ONE OF THE ANGLE MUST BE GIVEN OTHER THAN 90

4Q. $8.65*10 \text{ POW } -3$

5Q.DEPENDS ON R VALUE SO D

6Q.0.08

7Q.8

8Q.D

9Q.D

10Q.B

11Q.-4

12Q.B

13Q. 😊

14Q.C

1-->B

2-->Increase in 4%

3-->---

4--> 8.6×10^{-3}

5-->B if we take "r" is Independent
Otherwise the Ans is "D"

6-->.08

7-->8

8-->C

9-->D

10-->B

11-->-4

12-->B

13-->11

14-->A

Quant:

1. Col A: $2 * \{1/(\sqrt{2} + 1)/ \sqrt{2}\}$

Col B: $2 + \sqrt{2}$

Ans: B

2. If $0 < x < 1$, then

Col A: $(x^{-2})^{-3}$

Col B: $(x^{-3}) / (x^{-2})$

Ans: B

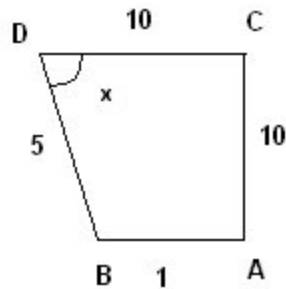
3. If $T = 2, 3, 5, 6, 7, 8, 9$, then

Col A: Mean of T

Col B: Median of T

Ans: B

4.



Given a figure of quadrilateral like above

Col A: x

Col B: 60°

Ans: D

5. The average of seven numbers is 35 then when k is added to it then the average of those 8 is 35. What is k ?

Ans: 35

6. If there are ' c ' cartons and each carton has ' x ' boxes which is being loaded in a truck in ' h ' hours and ' t ' hours.

Col A : The average time for loading the ' x ' boxes of all cartons

Col B: $cx / (h+t/60)$

Ans: D

7. From a set of positive numbers 1 to 100, two numbers x & y are to be selected at random.

Col A: Probability that the two numbers x & y are even

Col B: Probability that the sum of two numbers selected is even

Ans: B

Quant:

1. Col A: $2 * \{1/(\sqrt{2} + 1)/ \sqrt{2}\}$

Col B: $2 + \sqrt{2}$

2. If $0 < x < 1$, then

Col A: $(x^{-2})^{-3}$

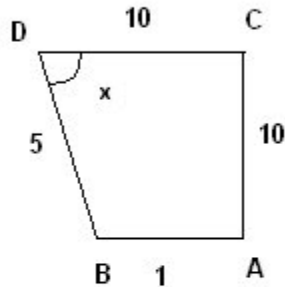
Col B: $(x^{-3}) / (x^{-2})$

3. If $T = 2, 3, 5, 6, 7, 8, 9$, then

Col A: Mean of T

Col B: Median of T

4.



Given a figure of quadrilateral like above

Col A: x

Col B: 60°

5. The average of seven numbers is 35 then when k is added to it then the average of those 8 is 35. What is k ?

6. If there are ' c ' cartons and each carton has ' x ' boxes which is being loaded in a truck in ' h ' hours and ' t ' days.

Col A : The average time for loading the ' x ' boxes of all cartons

Col B: $cx / (h+t/60)$

7. From a set of positive numbers 1 to 100, two numbers x & y are to be selected at random.

Col A: Probability that the two numbers x & y are even

Col B: Probability that the sum of two numbers selected is even

Admin,
drrajusgre.com

Quant:

1. Given a polygon with 9 equal sides & all angles are equal. If one side is extended, find the angle between the extension and the adjacent side.

the other side?

Ans: 40degrees

2. A set of 15 numbers has mean 'a' & median 'b' and another set of 25 numbers has mean 'c' & median 'd' mean of two sets is 'e', then

A. $a > b$

B. $c > d$

C. $e > f$

& so on....

3. Given a square of area 36. If a quadrilateral is formed by connecting mid points of two adjacent sides w

Col A: Perimeter of Quadrilateral formed

Col B: xx(some value is given)

Ans: $12\sqrt{2}$

4. Given a quadrilateral with sides 9, 9, 8 & 1.

Col A: Angle between the sides 9 and 9

Col B: 60

Ans: D

5. Given a Table.

Measure Frequency

1 13

2 1

3 14

4 9

5 25

Col A: Median of the data

Col B: 4

Ans: C

6. If two sides of the triangle are 6 & 8, then

Col A: Third side of the triangle

Col B: 10

Ans: D

7. Given that heights of 60 men, 60 women both have normal distributions and if the Standard Deviation of each is 10 each, then

Col A: Standard Deviation of a random sample of 30 men, 30 women

Col B: 9

Ans: D

& few previous [database](#) questions.

Admin,
drrajusgre.com

\Quant:

1. Given a polygon with 9 equal sides & all angles are equal. If one side is extended, find the angle between

the other side?

2. A set of 15 numbers has mean 'a' & median 'b' and another set of 25 numbers has mean 'c' & median 'd'. Mean of two sets is 'e', then

A. $a > b$

B. $c > d$

C. $e > f$

& so on....

3. Given a square of area 36. If a quadrilateral is formed by connecting mid points of two adjacent sides with

Col A: Perimeter of Quadrilateral formed

Col B: xx (some value is given)

4. Given a quadrilateral with sides 9, 9, 8 & 1.

Col A: Angle between the sides 9 and 9

Col B: 60

5. Given a Table.

Measure Frequency

1 13

2 1

3 14

4 9

5 25

Col A: Median of the data

Col B: 4

6. If two sides of the triangle are 6 & 8, then

Col A: Third side of the triangle

Col B: 10

7. Given that heights of 60 men, 60 women both have normal distributions and if the Standard Deviation of heights is 9, then

Col A: Standard Deviation of a random sample of 30 men, 30 women

Col B: 9

& few previous database questions.

Quant:

1. Given $8 + y = 2^n$, where 'n' is a positive number. Which of the following will be correct value for Y?

A. -6

B. -4

& so on....

Ans: To the given question, answer might be all the above.

2. If $3x - 3y = 1$; x and y are positive numbers, then

Col A: x/y

Col B: 1

Ans: A

3. If $(x+3)(x-3) = 4x+1$, then what is the value of x ?

Ans: $2 + \sqrt{14}$, $2 - \sqrt{14}$

4. If the area of the semi-circle is 2π , then what is perimeter of the semi circle?

Ans: $2\pi + 4$

5. Given a right angle triangle ABC whose adjacent sides are 'a', 'b' and hypotenuse 'c', then

Col A: $a + c$

Col B: $2b$

Ans: D

6. Given that 'A' completes a piece of work in 12 days and 'B' in 'x' days. When worked together, if they complete the work in 8 days, then what is the value of 'x'?

Ans: 36

7. If $a_1 = 2$, $a_2 = 3$ $a_n = a_{(n-1)} - a_{(n-2)}$, then what is the value of a_{150} ?
(Here 1, 2, 150, n, n-1 & n-2 are suffixes)

Ans: -1

8. If $1/x - 1/y = 1/xy$, then

Col A: x

Col B: y

Ans: B

9. If $0 < x < 1$ & $0 < y < 1$, then

Col A: $x / x^{(-1)}$

Col B: $y^{(-1)} / y$

Ans: B

10. If the average of x_1, x_2, x_3, x_4 is 'S' and the average of y_1, y_2 is 't', then the combined average of $x_1, x_2, x_3, x_4, y_1, y_2$ is

A. $s + t/2$

B. $s + t$

C. $s + t/8$

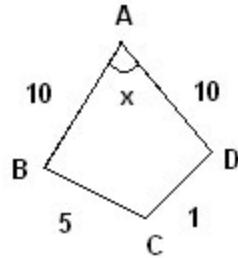
& so on.....

Ans: $(2s + t)/3$

11. The value of $5000 + \sqrt{(0.68) + (700.2)}$ is.....

Ans: 5026.4741

12.



Col A: x
Col B: 60°
Ans: B

Quant:

1. Given $8 + y = 2^n$, where 'n' is a positive number. Which of the following will be correct value for Y?
A. -6
B. -4
& so on....

2. If $3x - 3y = 1$; x and y are positive numbers, then
Col A: x/y
Col B: 1

3. If $(x+3)(x-3) = 4x+1$, then what is the value of x?

4. If the area of the semi-circle is 2π , then what is perimeter of the semi circle?

5. Given a right angle triangle ABC whose adjacent sides are 'a', 'b' and hypotenuse 'c', then
Col A: $a + c$
Col B: $2b$

6. Given that 'A' completes a piece of work in 12 days and 'B' in 'x' days. When worked together, if they complete the work in 10 days, then what is the value of 'x'?

7. If $a_1 = 2$, $a_2 = 3$ $a_n = a(n-1) - a(n-2)$, then what is the value of a_{150} ?
(Here 1, 2, 150, n, n-1 & n-2 are suffixes)

8. If $\frac{1}{x} - \frac{1}{y} = \frac{1}{xy}$, then

Col A: x

Col B: y

9. If $0 < x < 1$ & $0 < y < 1$, then

Col A: $x / x^{(-1)}$

Col B: $y^{(-1)} / y$

10. If the average of x_1, x_2, x_3, x_4 is 'S' and the average of y_1, y_2 is 't', then the combined average of $x_1, x_2, x_3, x_4, y_1, y_2$ is

A. $s + t/2$

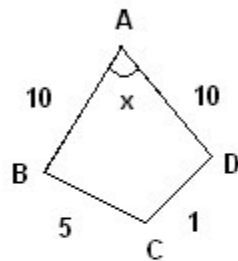
B. $s + t$

C. $s + t/8$

& so on.....

11. The value of $5000 + \sqrt{(0.68) + (700.2)}$ is.....

12.



Col A: x

Col B: 60°

Admin,
drrajusgre.com

Quant:

1. Given two **concentric circles**, such that a tangent to the smaller circle cuts the larger one at two points 'R' and 'S'. If the radius of smaller circle is 2 and larger circle is 5, then what is the length of segment 'RS'?

Ans: $2\sqrt{21}$

2. If $x < 0$, then

Col A: $2x^3 + 3x^2 + 5$

Col B: $3x^2 + 5$

Ans: B

3. Given the two sides of a triangle as 6 and 5 that are opposite to 'x' and 'y' angles. If the length of the third side is 8, then

Col A: $x + y$

Col B: 90

Ans: B

4. If the remainder when 10^{32} is divided by 11 is 'R', then

Col A: $R + 2$

Col B: 3

Ans: C

5. Given A's speed is 50 km/h and B's speed is 55 km/h. If 'A' covers distance in 5 hours, then how much time will B take to cover the same distance?

Ans: 4.54

6. In a shop, if the discount provided is 40% on one jacket and 20% on one shirt, then

Col A: What is the percentage reduction in discount on two jackets and one shirt

Col B: 35%

Ans: D

7. If R = Set of prime numbers from 1 to 50,

S = Set of multiples of 15 from 10 to 50,

T = Set of odd numbers from 1 to 50, then

how numbers will be common in all the three sets?

Ans: None

8. Given numbers 1, 2, 3, 4 & 5. What is the probability of choosing two numbers at random from the given set such that the sum of the two numbers must be an even number?

Ans: $\frac{2}{5}$

9. Given a series -9, 10, -11, 12, -13,80, then

Col A: The sum of first 27 numbers

Col B: -22

Ans: C

Admin,
drrajusgre.com

Quant:

1. Given two concentric circles, such that a tangent to the smaller circle cuts the larger one at two points 'R' and 'S'. If the radius of smaller circle is 2 and larger circle is 5, then what is the length of segment 'RS'?

2. If $x < 0$, then

Col A: $2x^3 + 3x^2 + 5$

Col B: $3x^2 + 5$

3. Given the two sides of a triangle as 6 and 5 that are opposite to 'x' and 'y' angles. If the length of the third side is as 8, then

Col A: $x + y$

Col B: 90

4. If the remainder when 10^{32} is divided by 11 is 'R', then

Col A: $R + 2$

Col B: 3

5. Given A's speed is 50 km/h and B's speed is 55 km/h. If 'A' covers distance in 5 hours, then how much time will B take to cover the same distance?

6. In a shop, if the discount provided is 40% on one jacket and 20% on one shirt, then

Col A: What is the percentage reduction in discount on two jackets and one shirt

Col B: 35%

7. If R = Set of prime numbers from 1 to 50,

S = Set of multiples of 15 from 10 to 50,

T = Set of odd numbers from 1 to 50, then

how numbers will be common in all the three sets?

8. Given numbers 1, 2, 3, 4 & 5. What is the probability of choosing two numbers at random from the given set such that the sum of the two numbers must be an even number?

9. Given a series -9, 10, -11, 12, -13,80, then

Col A: The sum of first 27 numbers

Col B: -22

Admin,
drrajusgre.com

Last edited by admin on Tue Feb 17, 2009 11:15 am; edited 1 time in total

1. $2\sqrt{21}$

2. B

3. D maybe

4. C

- 5. 50/11
- 6. A maybe
- 7. 2
- 8. 4 maybe
- 9. C

correct me if iam wrong.please

manoj

Quant:

1. If the retail price is 35% more than wholesale price and if the retailer sells it with a profit of 21% with the retail price, then what percentage of discount did he offer to the customer?

Ans: 10.3%

2. If $x > 1$ and $0 < y < 1$, then

Col A: $x^4 * y^4 / x^2$

Col B: $x^2 * y^4$

Ans: C

3. If $x < 0$, then

Col A: $-x$

Col B: $|x|$

Ans: C

4. Given 60% of the students passed in X subject, 50% of the students passed in 'Y' subject and 20% of the students passed in neither of the subjects. If 18 students passed in both the subjects, then how many students passed in the subjects?

Ans: 12

5. If a number 'n' is divided by 11, it gives remainder 5. What is the remainder when 7n is divided by 5?

Ans: Cannot be Determined

Quant:

1. If the retail price is 35% more than wholesale price and if the retailer sells it with a profit of 21% with the retail price, then what percentage of discount did he offer to the customer?

2. If $x > 1$ and $0 < y < 1$, then

Col A: $x^4 * y^4 / x^2$

Col B: $x^2 * y^4$

3. If $x < 0$, then

Col A: $-x$

Col B: $|x|$

4. Given 60% of the students passed in X subject, 50% of the students passed in 'Y' subject and 20% of the students passed in neither of the subjects. If 18 students passed in both the subjects, then how many students passed in the subjects?

5. If a number 'n' is divided by 11, it gives remainder 5. What is the remainder when 7n is divided by 5?

1. 10.3%
2. C
3. C
4. 12 MAY BE
5. 2

CORRECT ME IF IAM WRONG

Quant:

1. Col A: Standard Deviation of P1, P2, P3, P4 & P5

Col B: Standard Deviation of P1+5, P2+5, P3+5, P4+5 & P5+5

Ans: C

2. $(-1)^{18} * (168)^{-1} =$

- A. $1/168$
- B. 0
- C. 168
- D. -168
- E. $-1/168$

Ans: A

3. If $x < y$, then

Col A: $x + x^2 + 1$

Col B: $y + y^2 + 1$

Ans: D

4. If a train is moving at a speed of ' $x/6$ ' miles per ' y ' sec, then what is the speed in minutes when moving a

Ans: $Z*Y/10*x$

5. Given volume of a sphere 'A' as $\frac{4}{3}\pi r^3$. If the radius of the sphere 'B' is ' $2r$ ', then volume 'B' is how of 'A'?

- A. 0
- B. 6
- C. 8
- & so on.....

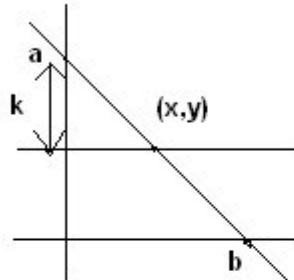
Ans: C

6. For $n/(5)*(n-1)$, $n > 20,000$. What would be the value of the given form?

- A. $1/5$
- B. $2/5$
- C. $5/2$
- D. $3/5$
- & so on....

Ans: A

7.



What is the value of x & y in terms of 'k'?

Ans: $x = bk/a$; $y = a - k$

Admin,
drrajusgre.com

Last edited by admin on Mon Feb 23, 2009 12:19 pm; edited 1 time in total

@farin_05

by seeing we can say

$Y = a - k$

and as the line is passing through $(0, a), (b, 0)$

so line eq is

$y - a = (-a/b)(x)$

so substitute $Y = a - k$ for X

so **$X = bk/a$**

Quant:

1. Col A: Standard Deviation of P1, P2, P3, P4 & P5

Col B: Standard Deviation of P1+5, P2+5, P3+5, P4+5 & P5+5

2. $(-1)^{18} * (168)^{-1} =$

A. $1/168$

B. 0

C. 168

D. -168

E. $-1/168$

3. If $x < y$, then

Col A: $x + x^2 + 1$

Col B: $y + y^2 + 1$

4. If a train is moving at a speed of ' $x/6$ ' miles per ' y ' sec, then what is the speed in minutes when moving a

5. Given volume of a sphere 'A' as $\frac{4}{3}\pi r^3$. If the radius of the sphere 'B' is ' $2r$ ', then volume 'B' is how
of 'A'?

A. 0

B. 6

C. 8

& so on.....

6. For $n/(5)*(n-1)$, $n > 20,000$. What would be the value of the given form?

A. $1/5$

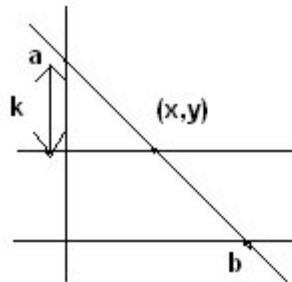
B. $2/5$

C. $5/2$

D. $3/5$

& so on....

7.



What is the value of x & y in terms of 'k'?

Admin,
drrajusgre.com

Last edited by admin on Fri Feb 20, 2009 11:50 am; edited 1 time in total

1. If $a > 1$, then

Col A: $a^2 - 1$

Col B: $a + 1$

Ans: D

2. Col A: Standard Deviation of 23, 24, 25, 26, 26, 26

Col B: Standard Deviation of 25, 26, 27, 28, 29, 30

Ans: B

3. If a number is divisible by 5, the remainder is 3 & when the same number is divided by 7, the remainder is the least possible number?

Ans: 18

4. Given $A = \{\text{Set of odd integers less than 100}\}$

$B = \{\text{Set of positive even integers less than 5}\}$

$C = \{\text{Set which include product of both sets A and B}\}$

Col A: number of integers in set C

Col B: 100

Ans: C

5. If $x < 0$ then the value of $(-x)(-x)/(-x)$ is

A. $|x|$

B. x

C. x^2

D. 0

E. $-|x|$

Ans: E

6. A group of 1 professor and 3 students have to be made from 4 professor and 5 students.

Col A: Different ways in which the groups can be formed

Col B: 40

Ans: C

7. Given a right angle triangle ABC whose adjacent sides are 'a', 'b' and hypotenuse 'c', then

Col A: $a + c$

Col B: $2b$

Ans: D

Admin,
drrajusgre.com

A= {Set of odd integers less than 100}

which gives the size of set A is 50

B= {Set of positive even integers less than 5}

which gives size of set b as 2 (2,4)....becoz 0 is not included in even integers...

C= {Set which include product of both sets A and B}

is nothing but the product of number of set A and set B...

so the answer is $50 \times 2 = 100$..

so answer is C

Quant:

1. If $a > 1$, then

Col A: $a^2 - 1$

Col B: $a + 1$

2. Col A: Standard Deviation of 23, 24, 25, 26, 26, 26

Col B: Standard Deviation of 25, 26, 27, 28, 29, 30

3. If a number is divisible by 5, the remainder is 3 & when the same number is divided by 7, the remainder is least

possible number?

4. Given $A = \{\text{Set of odd integers less than 100}\}$
 $B = \{\text{Set of positive even integers less than 5}\}$
 $C = \{\text{Set which include product of both sets A and B}\}$
Col A: number of integers in set C
Col B: 100

5. If $x < 0$ then the value of $(-x)(-x)/(-x)$ is
A. $|x|$
B. x
C. x^2
D. 0
E. $-|x|$

6. A group of 1 professor and 3 students have to be made from 4 professor and 5 students.
Col A: Different ways in which the groups can be formed
Col B: 40

7. Given a right angle triangle ABC whose adjacent sides are 'a', 'b' and hypotenuse 'c', then
Col A: $a + c$
Col B: $2b$

Admin,
drrajusgre.com

1. Given 'p' and 'q' are two points which are on the same side of 0 on the number line.
Col A: $p+q$
Col B: 0
Ans: D

2. When a number 'w' is divided by 14, the remainder is zero. If 'w' is three lesser than its value and 15, its remainder is 14 then what is the value of 'w'?
Ans: 182

3. If an article cost is 256\$ in 1989 and is increased by 80% when compared to 1975, then what was the cost in 1975?
Ans: 142.2

4. If $t^4 = 16$, then
Col A: t
Col B: 2
Ans: D

5. Col A: The remainder when $10^{32}+2$ is divided by 11
Col B: xx (some value)
Ans: 3

6. Given a triangle ABC and a point 'D' divides the side AB such that a triangle ADC is formed & $AD/DB = 1/3$ area of the triangle ABC is r , then find the area of the triangle ADC in terms of r ?

Ans: $r/4$

\1. If the retail price is 35% more than wholesale price and if the retailer sells it with a profit of 21% with that of whole what percentage of discount did he offer to the customer?

Quant:

1. Given 'p' and 'q' are two points which are on the same side of 0 on the number line.

Col A: $p+q$

Col B: 0

2. When a number 'w' is divided by 14, the remainder is zero. If 'w' is three lesser than it value and when divided by 14 then what is the value of 'w'?

3. If an article cost is 256\$ in 1989 and is increased by 80% when compared to 1975, then what was its cost in 1975?

4. If $t^4 = 16$, then

Col A: t

Col B: 2

5. Col A: The remainder when $10^{32}+2$ is divided by 11

Col B: xx (some value)

6. Given a triangle ABC and a point 'D' divides the side AB such that a triangle ADC is formed & $AD/DB = 1/3$ the triangle ABC is r , then find the area of the triangle ADC in terms of r ?

Admin,
drrajusgre.com

1. Form a given set of numbers 2, 3, 4, 5, 6, 7, 8 & 9, find the number of ways of forming a four-digit number (without repetition)?

Ans: 840

2. If $x > y$, then

Col A: $|x+y|$

Col B: $|x-y|$

Ans: D

3. If $(x-2)^{(x-4)} = 1$, then

Col A: x

Col B: 4

Ans: C

4. The value of $5000 + \sqrt{6.9 * 7002.1}$ is

Ans: Around 5220

5. Given two groups G and M, G Group has 25000 people and M group has 30000 people. A total of 50000 group is formed by using these two groups. If one person is selected from G group then what is the probability that he is also from M group?

Ans: 0(if they are disjoint groups)

Else it is 1/5

6. A person 'B' types 2 papers in 3 seconds and a person 'C' types 1 paper in 1/2 sec. If they start working independently at same time. How many minutes will they take to type 8000 papers?

Ans: 50min (or) 3000secs

7. Given two points of a line as (3, k) & (5, m). If the slope of the line is 4, then what is the relation between k and m? (Similar to this)

Ans: $m = 8 + k$

8. If the mean of 30 numbers is 1.68 and the mean of first 20 numbers is xx(some value), then what is the mean of rest 10 numbers? (something like this)

9. Given lateral surface area of a cuboid and asked to find the volume of it?

Q.8 GIVEN B DOES 2 PAPERS IN 3 SEC SO 1 PAPER IN 1.5SEC
,C DOES 1 PAPER IN .5SEC
SO TOGETHER ($1/BOTH = (1/B) + (1/C) = (1/1.5) + (1/.5) = 4/1.5$
BOTH DO 1 PAPER IN 1.5/4 SEC, SO FOR 8000 PAPERS
($1.5 * 8000$)/4 = 3000 SEC R 50 MIN

Quant:

1. Form a given set of numbers 2, 3, 4, 5, 6, 7, 8 & 9, find the number of ways of forming a four-digit number (without repetition)?

2. If $x > y$, then

Col A: $|x+y|$

Col B: $|x-y|$

3. If $(x-2)^{(x-4)} = 1$, then

Col A: x

Col B: 4

4. The value of $5000 + \sqrt{6.9 * 7002.1}$ is

5. Given two groups G and M, G Group has 25000 people and M group has 30000 people. A total of 50000 people are formed by using these two groups. If one person is selected from G group then what is the probability that he is from M group?

6. A person 'B' types 2 papers in 3 seconds and a person 'C' types 1 paper in $\frac{1}{2}$ sec. If they start working same time. How many minutes will they take to type 8000 papers?

7. Given two points of a line as (3, k) & (5, m). If the slope of the line is 4, then what is the relation between (Similar to this)

8. If the mean of 30 numbers is 1.68 and the mean of first 20 numbers is xx(some value), then what is the numbers?
(something like this)

9. Given lateral surface area of a cuboid and asked to find the volume of it?

Admin,
drrajusgre.com

Quant:

1. If $10^n = 0.0004$, then what is the value of n?

Ans: Cannot be determined

But, if it is $10^n = 0.0001$, then $n = -4$

2. If the price of an article is 256\$ in 1989 and is increased by 80% when compared to 1975, then what was the price in 1975?

Ans: 142.2

3. Col A: Standard Deviation of m1, m2, m3, m4 & m5

Col B: Standard Deviation of m1+5, m2+5, m3+5, m4+5 & m5+5

Ans: C

4. If the remainder when 10^{32} is divided by 11 is 'R', then

Col A: R+2

Col B: 3

Ans: C

5. If $3x - 3y = 1$; x and y are positive numbers, then

Col A: x/y

Col B: 1

Ans: D

6. If the area of the semi-circle is 2π , then what is perimeter of the semi circle?

A. 2π

B. 8π

C. 16π

D. $2\pi + 4$

E. $4\pi + \sqrt{4}$

Ans: D

7. Which of the following has the highest slope

A. $y - 1/4x = 5$

B. $y - 1/2x = 2$

C. $y + 2x = -3$

D. $y + 7x = -6$

& so on.....

Ans: B

8. Given that 60% of the sophomores took up liberal arts, 24% took sciences and rest took both or neither sophomores took psychology, then what percentage of arts students took psychology?

Ans: Cannot be determined

9. If $2/x = y/2$, then

Col A: X

Col B: Y

Ans: D

Quant:

1. If $10^n = 0.0004$, then what is the value of n?

2. If the price of an article is 256\$ in 1989 and is increased by 80% when compared to 1975, then what was the price in 1975?

3. Col A: Standard Deviation of m_1, m_2, m_3, m_4 & m_5

Col B: Standard Deviation of $m_1+5, m_2+5, m_3+5, m_4+5$ & m_5+5

4. If the remainder when 10^{32} is divided by 11 is 'R', then

Col A: $R+2$

Col B: 3

5. If $3x - 3y = 1$; x and y are positive numbers, then

Col A: x/y

Col B: 1

6. If the area of the semi-circle is 2π , then what is perimeter of the semi circle?

A. 2π

B. 8π

C. 16π

D. $2\pi+4$

E. $4\pi+\sqrt{4}$

7. Which of the following has the highest slope?

A. $y - 1/4x = 5$

B. $y - 1/2x = 2$

C. $y + 2x = -3$

**D. $y+7x=-6$
& so on.....**

8. Given that 60% of the sophomores took up liberal arts, 24% took sciences and rest took both or neither sophomores took psychology, then what percentage of arts [students](#) took psychology?

**9. If $2/x = y/2$, then
Col A: X
Col B: Y**

Admin,
drrajusgre.com

plz chck the solutons

1.?????.. it may b 0.00001 so $n=-4$

2.

3.no change

4.

5.A

6.D

Quant:

**1. If x , y and z are three consecutive integers, such that $x < y < z$. Which of the following will be an even integer?
A. $x - y^{2z}$
B. $((x)^y)^z$
C. $(x - y) yz$
& so on...**

2. There are 7 working employees in a company and they work 140 hours extra. If 4 of them work 'p' hours extra and 3 of them work '2p' hours extra then find out the difference between the mean and median of the total extra working hours.

3. Given x , y are positive integers. If $x^2 + y^2 = 17$, then what is the value of $x + y$?

**4. A plane travels 100 miles in a second. How much distance will it cover in one hour?
(Something like this)**

**5. Given a line 'L' passing through point (3, -2) and cutting the coordinate axis.
Col A: Slope of the line 'm' which is perpendicular to line 'L'
Col B: some value (xx)**

6. A tank contains 'g' gallons of water. The tank has one inlet and one outlet. If the water enters the tank at 'x' gallons per minute and flows out at 'y' gallons per minute ($y > x$), at what time the water in the tank will become $g/2$ gallons?
(Similar to this)

7. Find the y-intercept of the line passing through point (2, 4) and (5, 3)?
(Similar to this)

8. Given on a event, every member of a community exchange cards with every other member. If the postman delivered 45 cards, then how many members are there in the community?
(Something in this)

Quant:

1. Given a condition $1/x < 1/x^3 < 1/x^2$, which of the following value of 'x' satisfies the given condition?

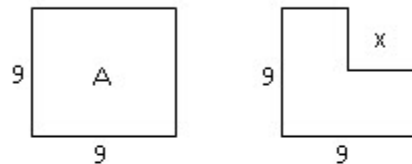
A. $x = 1/2$

B. $x = -1/2$

C. $x = 1/4$

& so on.....

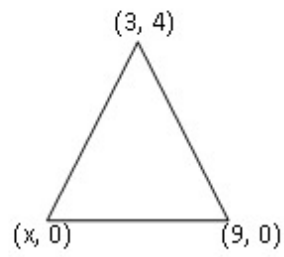
2.



Col A: Area of square A

Col B: $4/3(81 - x)$

3.

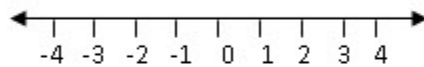


Given area of the triangle as 12

Col A: x

Col B: 4

4.



Given a number line like above. Find the Arithmetic mean?

5. If $xy < 0$ and $yz < 0$. Which of the following cannot be true?

A. $x < 0$ and $z < 0$

B. $x > 0$ and $z > 0$

C. $x < 0$ and $y < 0$

& so on.....

6. Find the remainder of $[123^2 - 123 + 123^2]/11$?

7. Given that a person invites 10 members to a party, of which 3 are his best friends and 7 are his casual friends. If 2 members are to be selected from 10, find the probability that selected 2 are his best friends?

8. The value of $(10^9 + 10^8 + 10^7 + 10^6) \bmod 11$ is

9. Given 1000 items are sold with no profit and no loss and remaining items are sold at profit of 0.5 each for 300\$, find the number of items?

10. A liquid is poured into a cylinder of volume 1000 m^3 . If the height is 0.1m, find the radius of the cylinder?

11. Given a series 3, 33, 333 Find the sum of digits in the hundreds place of first 10 numbers of the series.

12. Col A: Area of rectangle having perimeter 20

Col B: Area of rectangle having perimeter 24

12) D

10) $100 \sqrt{10/\pi}$

9) 11012221 OR 11012221

6) 1

5) B. $x > 0$ and $z > 0$

4) 0

3) D COZ $X=15$ AND $X=3$

2) B

1) B

2) D

3) B

4) 0

5) C

6) 2

7) $1/15$



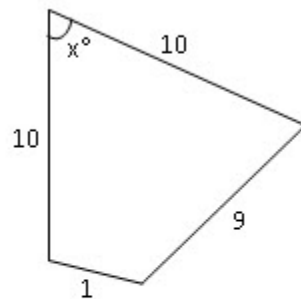
9)----

10) $10^{5/3.142}$

11) 0

12) `D["code"]`

1.



Col A: x

Col B: 60°

2. Given that 7 workers spends a total of 140 extra hours. If four workers spends ' h ' extra hours each and ' $2h$ ' extra hours each, then find the difference between mean and median of the hours?
(Similar to this)

3. Col A: Number of odd numbers from 100 to 200

Col B: Number of even numbers from 100 to 200

4. A person ' A ' saves ' x ' dollars more than person ' B ', if both of them together saved ' y ' dollars, then how much ' A ' save?

5. In triangle ABC, ' D ' is the midpoint of AC and BD is the median. Which of the following angles could be 90°?

A. $\angle A$

B. $\angle B$

C. $\angle C$

D. $<D$
E. None of the above
(Similar to this)

6. Given x-intercept = 2 and y-intercept = some value(X). Find the equation of the line?

7. Given slope of the line $k = -2/3$
Col A: x-intercept
Col B: y-intercept

8. Given six symbols @, \$, \$, \$, @, &. Find the number of different possible arrangements?

2.) DIFFERENCE BETWEEN MEDIAN AND MEAN IS 6. SINCE MEAN IS 20 AND MEDIAN IS 14.

3.) 49 EVEN NUMBERS BETWEEN 100 TO 200 AND 50 ODD NUMBERS BETWEEN 100 AND 200 (SINCE IN EV HAS TO BE EXCLUDED AND IN ODD NUMBERS 199 HAS TO BE INCLUDED)

THEREFORE THE ANSWER IS A (ODD NUMBERS COLUMN IS GREATER)

4.) THEN PERSON A SAVES $X+Y/2$ DOLLARS. SUPPOSE PERSON B SAVES 10 DOLLARS AND PERSON A SAV DOLLARS. THEREFORE $A-B=X$ AND $A+B=Y$ COMPUTING THE 2 EQUATION GETS $X+Y/2$

6.) LET THE Y INTERCEPT BE (0,a) and x intercept be (2,0) then $m=-a/2$ and $c=a$ therefore the equation o $2y+ax=2a$

can some one get the answers of 1, 5 and 8 with explanations and verify the remaining answers

7.) $m=-2/3$ according to the formulae of slope= $y-0/0-x=-y/x=-2/3$ therefore $y=2$ and $x=3$ therefore A is th

) IN THIS EXAMPLE IT IS NOT SPECIFIED THAT 100 AND 200 ARE INCLUSIVE THEREFORE WE CANNOT INCLUDE 100 / THEREFORE I THINK I M MAKING THE CORRECT INTERPRETATION

😄@,\$,\$,\$,@,& IN ORDER TO ARRANGE IN DIFFERENT WAYS

AT THE FIRST POSITIONS ONLY @,\$ AND & CAN BE PLACED THAT IS 3 WAYS AND SUBSEQUENTLY ON REMAINING 5 WILL BE ONLY 3 POSSIBILITIES

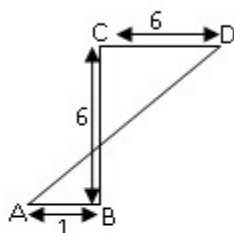
THEREFORE, $3^6=729$

THIS IS WHAT I THINK. PLEASE CORRECT ME WITH EXPLANATION IF I M WRONG

1. Col A: $1/25 + 1/26 + 1/27 + 1/28 + 1/29 + 1/30$
Col B: 0.2

2. Given a line AB of slope 2. What is the slope of other line CD perpendicular to line AB?
(Similar to this)

3.



What is the value of AD?
(Similar to this)

4. Given $(x + 1/x)/(1/(1-x)) = 99$, find the value of x?

5. Given a cylinder with liquid in it. The height of the liquid in the cylinder, when erected is twice when bent.

Col A: Volume of cylinder when erected

Col B: Volume of cylinder when bent

6. Given $m = 4^x + 4^x + 4^x + 4^x$. Find m^2 ?

7.

Value	Frequency
-3	3
-2	3
-1	3
0	7
1	3
2	3
3	3

Value	Frequency
-3	5
-2	4
-1	2
0	6
1	1
2	4
3	5

Which of the following is equal in the above two tables?

A. Mean

B. Mode

C. Mean and Median

& so on.....

8. Col A: $(5 + 1/4)^2 / (5 - 1/4)^2$

Col B: xxx (some value)

[/b]

1. A

2. $-1/2$ slopes $m_1 * m_2 = -1$

3. sqrt 85 if AB perpendicular to CD

4. ?????

5. C

6. $4^{(2x+2)}$

7. ?????

8 $21/19$

please check my answers

1) B IS THE ANSWER 0.2 IS GREATER

2) $M = -1/2$ OF LINE CD AND M OF LINE AB IS 2

3) $AD = \text{SQRT } 85$

4) I AM NOT ABLE TO GET THE VALUE OF X

5) C VOLUME WILL REMAIN THE SAME BUT THE HEIGHT OF THE LIQUID WILL DIFFER SINCE WHEN ERECT THE HAVE HEIGHT "H" AND DIAMETER "D" AND WHEN HORIZONTAL THE CYLINDERS HEIGHT WILL BE THE DIAMETER OF THE CYLINDER.

6) 2^{2x+2}

7) TABLE 1. MEAN=0 MODE=0 AND MEDIAN=0(13TH)

TABLE 2. MEAN= $-1/27$ MODA=0 AND MEDIAN=0(14TH) THEREFORE MODE AND MEDIAN ARE EQUAL

8) $21^2/19^2$

Quant:

1. If $m^2 + n^2 = 17$, what is the value of m and n?

2. If XY is not equal to zero, then

Col A: $|X| + |Y|$

Col B: $X + Y$

3. Col A: $X+Y$

Col B: $|X+Y|$

4. There is cistern, a tap which can pump water of quantity 1000m^3 per min is opened into it. If in one sec level rises to 0.1 meter, what is the radius of the cylindrical cistern?

5. How many different four consecutive numbers set can be formed from 2 to 20?

6. If 7 workers worked 140 hours extra than usual. Four workers spend X hours extra, 3 workers spend 2X. Find the difference between median and mean?

7. There are 'X' members in a meeting, in how many ways a group is formed such that 'A' members are always included and 'B' members are always included?
(Something like this)

Quant:

1. Given median of 7 numbers as $2n+1$. Find the mean?

2. Given a circle with sector angle 40 degree and the radius was also given. And was asked to find the length of arc?

3. A person invites 7 people to his birthday party. 3 of them were his close friends and 4 were casual friends. At the party he decided to give a gift to one member in the party, what is the probability that the gift will go to his close friend?
(Something like this)

4. A square is inscribed in a circle and the area of the circle is given as 25π .

Col A: Area of square

Col B: Some value (XXX)

5. If x, y and z are three consecutive integers, such that $x < y < z$. Which of the following will be an even integer?

A. $x - y^2z$

B. $((x)^y)^z$

C. $(x - y)yz$

& so on...

6. Given a series 3, 33, 333 find the sum of the hundreds digit of the first 10 numbers of the series?

7. Given $(x + 1/x)/(1/(1-x)) = 99$, find the value of x?

A. -1

B. 1

C. 98

D. 100

E. 101

8. When a number n is divided by 5 it gives remainder 3 and when divided by 3 the remainder is 1. What is the remainder when n is divided by 15?

9. Given that a is not equal to 0, b is not equal to 2b and $a/b = b/a$.

Col A: $a(b + a) + 3$

Col B: some value

(Similar to this)

10. Give three points P1 (-1, 1), P2 (3, x) and P3 (101,100). If all the three points lie on a straight line, find the value of x?

11. Table 1:

Value	Frequency
-3	5
-2	4
-1	2
0	6
1	1
2	4
3	5

Table 2:

Value	Frequency
-3	3
-2	3
-1	3
0	7
1	3
2	3
3	3

I. Mean1 = Mean2**II. Median 1 = Median 2**

III. Mode 1 = Mode 2

- A. Only 1
- B. Only 2
- C. Both 1 and 2
- & so on.....
- (Similar to this)

12. Given an empty cylindrical tank with its water inlet rate $1000\text{cm}^3/\text{min}$. If in one minute the water level rises 10 cm, calculate the radius of cylinder?

13. What is the maximum prime number by which 1075 is divisible?

- A. 17
- B. 43
- C. 71
- & so on.....

14. From a group of 20 students with 10 boys and 10 girls, a teacher has to select 7 students. If she selects 7 students, what is the probability that selected 7th student is also a girl?

15. If $-8 \leq y \leq 10$ and $x - y = 5$, what is the maximum possible value of xy ?

16. If $x \leq 1$ and $y \geq 1$, then

Col A: $|x - y|$

Col B: $y + x$

17. A company has X employees, in which y are man and $z\%$ of total employees are advocates. If $p\%$ of women are advocates, where p, z = some value (xxx) given. Calculate the number of men advocates?
(Something like this)

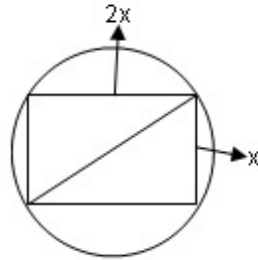
1. Col A: $[5 + (1/4)]^2 + [5 - (1/4)]^2$
Col B: 50

2. In a triangle ABC, D is the midpoint of AC and BD is the altitude. Which of the following angles can be equal to 90° ?

90° ?

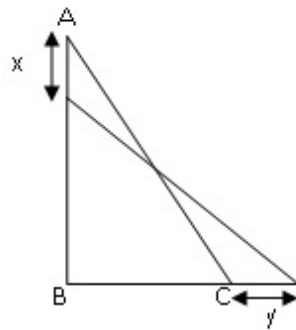
- A. $\angle A$
- B. $\angle B$
- C. $\angle C$
- & so on.....

3.



As shown above two lengths of the rectangle are $2x$ and x . If the circumference of the circle is 4π , what is the area of the rectangle?

4.

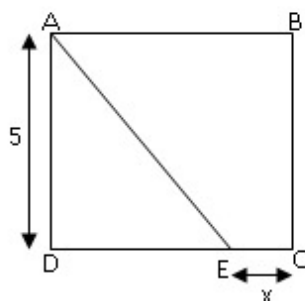


As shown above in the figure, AC is ladder and AB is the wall. If the ladder is slid downwards against the wall, then

Col A: x
Col B: y
(Similar to this)

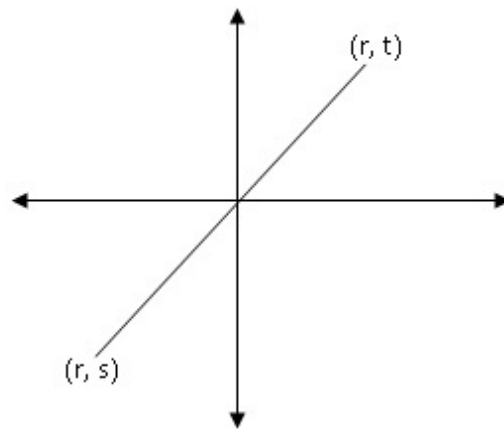
5. Col A: 20% of $(1/16)$
Col B: 25% of (0.25)

6.



What fraction of area of square ABCD is equal to area of triangle?
A. $(5 - x)/5$
B. $(5 - x)/10$
& so on.....

7.



Col A: s
Col B: $-t$

8. Given that there are 'n' employees, of which 70% are lawyers and 55% of these are females. How many percentage of these 'n' employees are male lawyers?

9. If $a \leq b$, then

Col A: The remainder when 'a' is divided by 'b'
Col B: $b/2$

10. In how many maximum parts can a circular region be divided by using 3 lines which cut the circle at different places?

11. Col A: $\frac{1}{25} + \frac{1}{26} + \frac{1}{27} + \frac{1}{28} + \frac{1}{29} + \frac{1}{30}$
Col B: 0.2

12. Col A: $n^2 + (n+1)^2$
Col B: $n^2 + (n-1)^2$

13. Given 'X' as a set of elements that has numbers between 1 and 100 inclusive and are not divisible by 7.

Col A: Number of elements in X
Col B: 68

1. Given a series a_1, a_2, \dots, a_n . If $a_1 = 4$, $a_2 = -5$ and $a_n = a_{(n-1)} + a_{(n-2)}$, then find the sum of first 100 terms?
[NOTE: 1, 2, (n-2), (n-1) and n in the above question are subscripts].

2. Given a set: $\{k-1, k, k+1, k+2, k+3\}$. Find the ratio of mean to median?

3. If $1/(x-y)^{-1} + 1/(x+y)^{-1} = 4$, then find the possibilities of x and y?

4. Col A: $1/25 + 1/26 + 1/27 + 1/28 + 1/29 + 1/30$

Col B: 0.2

5. What is the 57th decimal digit, when 2 is divided by 7?

6. Given a series -9, 10, -11, 12, -13, 14 88.

Col A: Sum of first 27 terms

Col B: 22

7. Find the 5th digit, when 142241 is divided by 121?

8. Col A: Angle between the hours hand and minutes hand at quarter past hour.

Col B: 90

9. Given a sequence k, k-1, k+2, k+1, k+3. Find the ratio between mean and median?

A. 1

B. 2k

C. 5k

D. 2k+1

& so on.....

10. Given a set of numbers 1, 2, 3, 4 and 5, how many different numbers are possible for the sum $x + y$?

11. Given a cone, the specifications of the triangle given were two equal sides x, one angle 60 form sides and perimeter of semicircle 50pi. Find the perimeter of triangle?
(Similar to this)

12. Given slope of a line with x, y intercepts 3, 4 is 'L' and slope of a line with x, y intercepts 4, 3 is

Col A: L

Col B: M

13. Col A: $n^2 + (n - a)^2$

Col B: $n^2 + (n - b)^2$

(And some relation is given between a and b)

14. If $x < y$, then

Col A: $x + y$

Col B: 2

15. The average of HEDGERTON town is some 20% of LEIGHTON town, where LEIGHTON town is in town, but HEDGERTON not included in it.

Col A: Percentage of LEIGHTON town.

Col B: 20%

(Something like this)

16. A number 'n' when divide by 24 gives 21 as remainder. Which of the following can be the quotie

- A. 3**
- B. 4**
- C. 5**
- D. 6**
- E. 7**

(Something like this)

17. If $-1 < r < t < 0$, then

Col A: $r + rt^2$

Col B: -1

1.) PLEASE ANSWER THIS QUESTION WITH explanations. I M NOT ABLE TO GET THIS QUESTION AT ALL

2.) 1 IS THE ANSWER

3.) $X=2$ AND $Y=????????$ PLEASE EXPLAIN IF ANYONE GET THIS ANSWER

4.) B

5.) 7 IS THE 57TH DECIMAL

6.) B IS THE ANSWER. SINCE THE SUM OF FIRST 27 TERMS COMES OUT TO BE -22 AND COLUMN B IS 22

7.) THE FIFTH DIGIT OF THE QUOTIENT IS 5

8.) B OBVIOUS

9.) 1 (2ND QUESTION REPEATED)

10.) 7 THE NUMBERS ARE AS FOLLOWS 3, 4, 5, 6, 7, 8, 9 THESE ARE OBTAINED NUMBERS 1,2,3,4,5 ARE

11.) 300, "QUESTION IS A BIT EVASIVE". STILL, DIAMETER OF THE CIRCLE IS 100 AND THE TRIANGLE IS TRIANGLE THEREFORE 300 IS THE PERIMETER

12.) B

13.) ??????????????

14.) D

15.) PLEASE ANSWER THIS QUESTION WITH EXPLANATIONS

16.) ??????????????

17.) D

1. What is the probability of selecting an odd number from 1, 2.....n, such
number greater than 50?

2. Given $(x^2) - 36 = 0$ and $x(x-6)(x-8) = 0$

Col A: x

Col B: 0

3. Rachel brought 'w'kgs of fodder for a week and fed it to some animal. If each animal consumes 'x'kgs of then

Col A: Number of animals

Col B: $(7w)/x$

4. If $(n - 2)^2 = (n + 5)^2$, then

Col A: n

Col B: -1

5. A person invited 7 people to a party. Of which 3 of them were friends and 4 of them were guests. If 2 people selected from 7 people, find the probability that selected 2 people are his guests?

6. Given that two stations 'A' and 'B' are 500 km apart. A train from station 'A' has started towards station 'B' at a certain speed. If after one hour, another train has started from the station 'B' towards station 'A' at a certain speed. At what distance do they meet from the station 'B'?

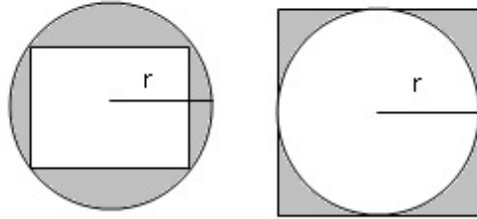
7. If a plane travels 100kms per 't' seconds, how many hours will it take to travel x distance? (Something like this)

8. Given that on day1 A and B worked for 10 hrs and produced 5000 books. On the next day 'A' worked for 4hrs.

Col A: Number of books produced on day2

Col B: 4500

9.



Col A: Area of shaded region A

Col B: Area of shaded region B

10. If 7 workers worked 140 hours extra than usual. Four workers spend X hours extra, 3 workers spend 2 hours extra. Find the difference between median and mean?

11. Col A: $\sqrt{a^2 + b^2}$

Col B: $\sqrt{a^2} + \sqrt{b^2}$

12. Given $xy \neq 0$

Col A: $|x + y|$

Col B: $x + y$

13. In a triangle ABC, D is the midpoint of AC and BD is the altitude. Which of the following angles can be 90degree?

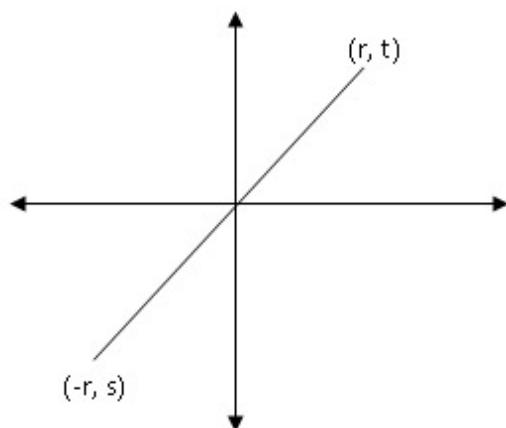
A. $\angle A$

B. $\angle B$

C. $\angle C$

& so on.....

14.



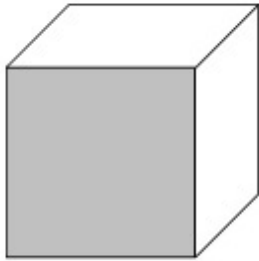
Col A: $-s$

Col B: t

15. Given x -intercept and y -intercept of a line are 3. What is the equation of the line?

16. In a right circular tank, water will be following into the tank at the rate of $1000\text{m}^3/\text{min}$. If the rise of the tank is 0.1 per minute, find the radius of the tank?

17.



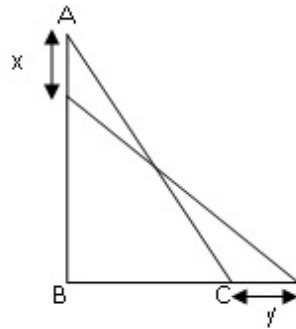
**Given volume of the cuboid as 12cubic.ft and the length of the cuboid as 6inches, find the surface area of the cuboid?
(Similar to this)**

18. Given six symbols \$, \$, *, &, &, \$. Find the number of ways in which these symbols can be arranged?

1. Given a series $k, k-1, k+1, k+3, k+2$. Find the Median?

**2. In an apartment 92% have cars and 14% have bikes and every one in the apartment have either a car or a bike.
Col A: Fraction of the people having either bike or a car
Col B: $\frac{1}{10}$**

3.



As shown above in the figure, AC is ladder and AB is the wall. If the ladder is slided downwards again then

Col A: x

Col B: y

(Similar to this)

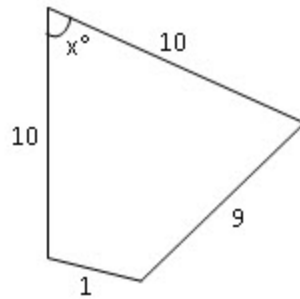
4. From a group of 20 [students](#) with 10 boys and 10 girls, a teacher has to select 7 students. If she what is the probability that selected 7th student is also a girl?

5. Col A: $\frac{1}{25} + \frac{1}{26} + \frac{1}{27} + \frac{1}{28} + \frac{1}{29} + \frac{1}{30}$

Col B: 0.2

6. Given $M = 4^x + 4^x + 4^x + 4^x$. Find the value of M^2 ?

7.



Col A: x
Col B: 60degrees

8. Col A: $(7!)^2$
Col B: 13!

9. Col A: The remainder when $(10^8 + 10^9 + 10^{10} + 10^{11} + 10^{12})$ divided by 11
Col B: 0

10. Given ' x ' is an integer. What is the minimum value of $3^x + 3^{-x}$?

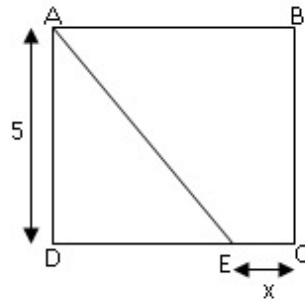
11. For a set of consecutive integers, if $2x + 2$ is the median, what is the mean of the set?

12. Given that a vehicle travels $100x$ miles in ' t ' secs. What is time taken in hours to travel ' y ' miles

13. What is the remainder, when $(7^6 + 7^7 + 7^8 + 7^9 + 7^{10})$ is divided by 14?

14. Given a cuboid with a face (facing towards us) shaded. If the width of the cuboid is 6inches, find the area of the shaded region?
(Something similar this)

15.



Find the ratio of area of triangle ADE to the area of square ABCD?

**16. Given that a person sells 1000 articles at no profit and no loss. If he sells each item after 1000 articles then he gets a profit of 'P'\$. How many such articles did he sold?
(Similar to this)**

Quant:

1. Given a series a_1, a_2, \dots, a_n . If $a_1 = 4$, $a_2 = -5$ and $a_n = a_{(n-1)} + a_{(n-2)}$, then find the sum of first 100 numbers of the series?

[NOTE: 1, 2, (n-2), (n-1) and n in the above question are subscripts].

2. Given the probability of raining on each of the five days is $\frac{1}{6}$, except on the first day it is $\frac{2}{5}$ and on the fifth day it is $\frac{4}{5}$. What is the probability that the rain will occur on at least one of the five days?

3. In how many maximum parts can a circular region be divided by using 3 lines which cut the circle at exactly two points each?

4. What is the minimum value of the expression $3^x + 3^{-x}$, where x is an integer?

**5. Given an equation of a line L as $y = cx + d$, where $c < 0$ and $d = 0$;
And equation of a line M as $y = cx + d$, where $c = 0$ and $d > 0$.**

Col A: Slope of line L

Col B: Slope of line M

6. If $1575 = 5^m \cdot 3^n \cdot 7^p$, then

Col A: $m + n + p$
Col B: 5

7. Given $x^2 - 36 = 0$; $x(x+6)(x-8) = 0$

Col A: x
Col B: 0

8. Col A: $(1/25 + 1/26 + 1/27 + 1/28 + 1/29 + 1/30)$
Col B: 0.2

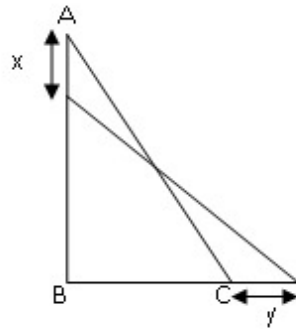
My ans r

- 1.???
- 2.???
- 3.7
- 4.2
- 5.b
- 6.c

Plz give other answers nd correct me if im wrong

1. Given $-8 \leq x \leq 10$ and $x + y = -4$. What is the least possible value of xy ?

2.



As shown above in the figure, AC is ladder and AB is the wall. If the ladder is slided down against the wall AB, then

Col A: x

Col B: y

(Similar to this)

3. Given a triangle ABC, D is the midpoint of AC and BD is the altitude. If one of the angles in the triangle is 90degrees, then which of the following could be 90degree?

A. $\angle A$

B. $\angle B$

C. $\angle C$

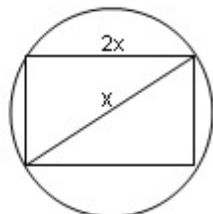
D. Any one of the above

E. None of the above

(Similar to this)

4. From a group of 20 students with 10 boys and 10 girls, a teacher has to select 7 students. If the teacher selects 6 girls, what is the probability that selected 7th student is also a girl?

5.



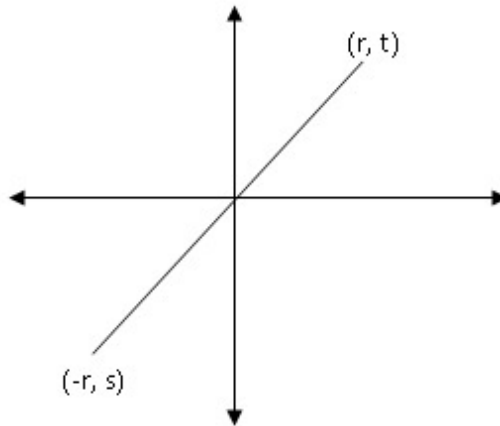
Given perimeter of the circle as $4\sqrt{5}$. The side of the rectangle is $2x$. The diagonal of the **rectangle** is given as ' x '.

6. What is the minimum value of the expression $3^x + (1/3^x)$?

7. What is the value of $0.3985/157.535$?

8. If a plane travels $100x$ kms per ' t ' seconds, how many hours will it take to travel y distance?

9.



Col A: s
Col B: $-t$

10. In the series of numbers from 1 to n inclusive. If the product of the series is divisible by 990, then

Col A: n
Col B: 9

11. When a number ' n ' is divided by 24, the remainder is 21. Which of the following is a multiple of
A. 3
B. 7
& so on.....

12. Col A: Standard Deviation of 8, 8, 10, 11, 12
Col B: Standard Deviation of 6, 7, 10, 11, 14

13. In the year 1995, a company gets \$' y ' profit. If in 1999, the profit is $\$2.6y$, then what is the average profit from 1995 to 1999 in terms of 1995 profit?
(Similar to this)

14. If $|x-3| < 2$ and $y < 0$, then
Col A: xy
Col B: xxxx (some value)

15. There are ' n ' seats in an auditorium and there are 6 identical rows. The last row chairs are pulled

number of chairs is placed in each of the remaining rows such that each row appears identical after transaction. What is the minimum value of n ?
(Something like this)

16. Given a series $k, k + 1, k-1, k+3, k+2$. Find the ratio of mean to median?

\

1. Given a set of time intervals and number of patients.

Time interval	Percentage of patients visiting
0 - 10secs	10%
10 - 20secs	20%
20 - 30secs	30%
----	----
----	----
-----	-----

& so on.....

If 25secs was waiting time of 15% of people visiting some doctor and n is time of 25% people, then

Col A: n

Col B: 50

(Something similar to this)

2. There are some chairs in a room which are equally distributed in 6 identical rows. If one row chairs are those chairs are equally distributed in remaining 5 rows then how many chairs are there in the room?

3. Given $-8 \leq x \leq 10$ and $x + y = -4$. What is the least possible value of xy ?

4. Find the remainder of the expression $(10^8 + 10^6 + 10^4 + 10^2)/11$?

5. Given the mean of a 'x' distribution whose percentile is between 60 and 75 as 56 and the mean of a 'y' distribution whose percentile is between 30 and 45 as 56.

Col A: x

Col B: y

(Something like this)

6. Given $m^2 + n^2 = 17$; where m, n are integers. What is the possible value of $m + n$?

7. The water flows into a cylinder at 1000cubic.inches/min. If the rise in the water level in the tank is 0.1in the radius of the cylinder?

8.

No. of Absentees	No. of Students
0	11
1	7
2	3
3	5
4	2
More than 5	1

What is the median of number of absentees?

9. Given two sets A: {15,19,20,21,25} and set B: {15,18,20,22,25}

Col A: Standard Deviation of set A

Col B: Standard Deviation of set B

10. Given $xy = 20$; where x, y are positive integers. Find the number of possible values of the sum $(x + y)$?

A. 2

B. 3

C. 4

D. 5

& so on....

11. Given $y = 2x+20$, y is an integer and $0 < x < 19$.

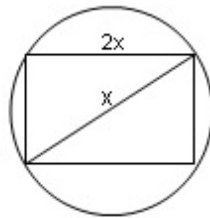
Col A: The number of possible values of y

Col B: 18

12. Given a triangle ABC, D is the midpoint of AC and BD is the altitude. If one of the angles in the triangle 90degrees, then which of the following could be 90degree?

- A. $\angle A$
 - B. $\angle B$
 - C. $\angle C$
 - D. Any one of the above
 - E. None of the above
- (Similar to this)

13.



Given perimeter of the circle as $4\pi\sqrt{5}$. The side of the rectangle is given as ' $2x$ ' and diagonal of the rectangle is given as ' x '.

& many more previous database questions appeared.

1. From a city M, a person travels to city P of 500 miles at a uniform speed of 400 miles/hr and travels back to city M at a uniform speed of 500 miles/hr. What is the average speed of the person in making a round trip?

2. Given a 12 sided regular polygon.



What is the value of each individual internal angle?

- A. 120degrees**
- B. 150 degrees**
- C. 160 degrees**
- D. 170degrees**
- E. 180degrees**

3. The volume of a right circular cylinder is given as 2000π . If $h = 16r$, then

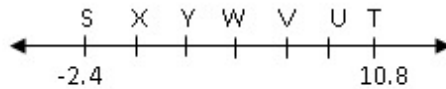
Col A: Radius

Col B: 1

4. Col A: Area of rectangle whose perimeter 20

Col B: Area of rectangle whose perimeter 24

5.



Col A: V
Col B: 6.4

6. Given $a_k = \frac{1}{k} - \frac{1}{k+1}$; where $k = 1, 2, \dots, 100$. What is the sum of first 100 numbers?

- A. $\frac{1}{100}$
 - B. 1
 - C. 0
 - D. $\frac{101}{100}$
 - E. $\frac{1}{101}$
- (Similar to this)

7. On a particular day 'X' number of people go to the post office. Of them, 7 people mailed letters, 9 people mailed packages but didn't buy stamps or mail letters.

Col A: The number of people who buy stamps and mailed letters

Col B: The number of people who mailed packages but didn't buy stamps or mailed letters

8. Given $1 < x < 2 < y < 3 < z$

Col A: xy

Col B: z

9. Given three points $(-1, -1)$, $(29, 14)$ and $(x, 3)$. If three points lie on a same line, then what is the value of x ?
(Similar to this)

10. There's a square PQRS, it is tilted 90 degrees anticlockwise, so as to reach another point R' & S'. What is the area covered by the square if its side length is 2?

11. Given set A: $\{15, 19, 20, 21, 25\}$ and set B: $\{15, 18, 20, 22, 25\}$

Col A: Standard Deviation of set A

Col B: Standard deviation of set B

1. What is the greatest prime number that divides 1395?

A. 7

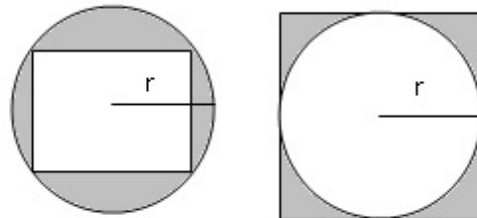
B. 17

C. 43

& so on.....

2. Given the median of set of seven consecutive integers as $2x + 2$. Find the mean of set?

3.



Col A: Area of shaded region in A

Col B: Area of shaded region in B

4. Col A: $(0.9/1.1)^2 + (1.1/0.9)^2$

Col B: 2

5. Given a line equation of form $y = mx + c$. In options, five lines equations were given, which of the follow equal to $1/2$?

(Similar to this)

6. Given $x^2 = 4$ and $y > 0$

Col A: $(y - x)^2$

Col B: $(y + x)^2$

7. Col A: 20% of (1/16)
Col B: 25% of (0.004)

8. When a **number** is divided by 24, it leaves remainder 21. Which of the following numbers must divide the

number?

- A. 3
- B. 7
- C. 9
- & so on.....

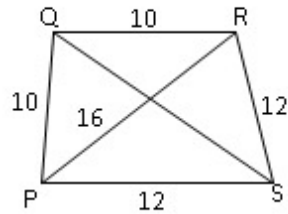
9. Given a figure, with label A representing three bars on it, label B representing five bars on it, label C representing four bars on it and label D representing 2 bars on it. If each bar represents 5 units, then in which class the median lies?
A. A
B. B
C. C
D. D
E. Cannot be determined.
(Something similar to this)

10. Given a set of values: $\{k-1, k, k+1, k+2, k+3\}$. Find the ratio of mean and median?

11. Given the ratio of side of a square to the side of an **equilateral triangle** as 4: 5.
Col A: Perimeter of Square
Col B: Perimeter of triangle

12. Given arithmetic mean of age of 10 **students** in a class as 35. If the arithmetic mean of 4 students is 30, then what is the age of remaining student?

13.



As shown above, $PS = SR = 12$, $PQ = QR = 10$ and $PR = 16$. What is the area of the quadrilateral PQRS?

14. Col A: $(\frac{9}{8})^7$

Col B: $(\frac{6}{7})^9$

15. Given a set: $\{3, 3^2, 3^3, 3^4\}$.

Col A: Mean of the set

Col B: Median of the set

16. If $2x + 1 > 0$, then

Col A: x

Col B: $\frac{1}{2}$

17. Given that 'S' represents the mean of a set of variables whose mean is 56 and "S' lies b/w 80th and 85th percentile. 'T' represents the mean of a set of variables whose mean is 56 and "T' lies b/w 85th and 90th percentile.

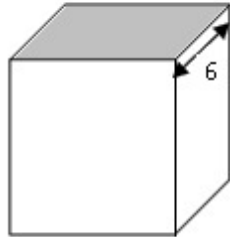
Col A: S

Col B: T

18. Col A: The greatest prime factor of 3^5

Col B: The greatest prime factor of 5^3

19.



As shown above, the length of the cuboid is 6 inches. If the volume of the cuboid is 12 cubic ft, then find the area of the shaded region?

20. If the sum of two positive integers 'x' and 'y' is an even number, then which of the following is true?

- A. xy is an odd integer
 - B. $(x^2 \cdot y)$ is an even integer
 - C. $(x \cdot y^2)$ is an odd integer
 - D. $(x^2 + y^2)$ is an even integer
- & so on.....

21. Col A: $\frac{1}{25} + \frac{1}{26} + \frac{1}{27} + \frac{1}{28} + \frac{1}{29} + \frac{1}{30}$
Col B: 0.2

1. Given perimeter of the sector as 'n' and area of the sector of a circle as ' $\frac{3n}{2}$ '. Find the radius of the circle.

2. Given a series $a_1, a_2, a_3, \dots, a_n$. If $a_k = \left(\frac{1}{k} - \frac{1}{k+1}\right)$, then find the sum of first 100 terms.
Note: Here 1, 2, 3, n, k are suffixes.
(Similar to this)

3. Col A: 2^{16}
Col B: 16^4

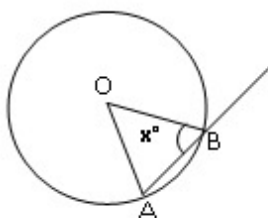
4. Col A: $((1) \cdot (-2) \cdot (3))!$
Col B: $(1)! \cdot (-2)! \cdot (3)!$
(Something like this)

5. If $a < 2$, then

Col A: $a^n + 1/a^{(n+2)}$

Col B: $a^n + 1/a^{(n-2)}$

6.



As shown "O" is the centre of the circle.

Col A: x

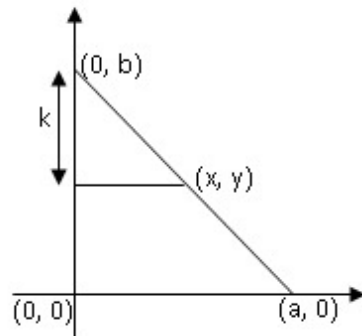
Col B: 45°

7. What is the greatest prime factor greater than 2 for 990?

(Something similar to this)

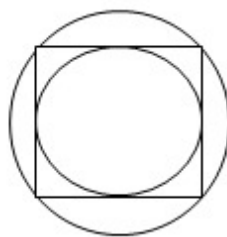
8. Given $[x - (1/x)] / [1 + (1/x)] = 99$. Find the value of $[x - (1/x)] / [1 - (1/x)]$?

9.



What is the value of (x, y) ?

10.



What is the ratio of area of smaller circle to the area of the bigger circle?

And few previous database questions appeared.

1. radius= $3 + (1080/\pi \cdot \theta)$ where θ is the angle subtended by the arc.
2. $5051/202$
3. C
4. A
5. D
6. D
7. 11
8. 101
9. $(ak/b, b-k)$
10. $1/2$

Please post all your answers as well, and do correct me if I am wrong.

Thanks.

1. **Given a set of values: $\{k-1, k, k+1, k+2, k+3\}$. Find the ratio of mean and median?**

2. **Given a 12 sided regular polygon.**



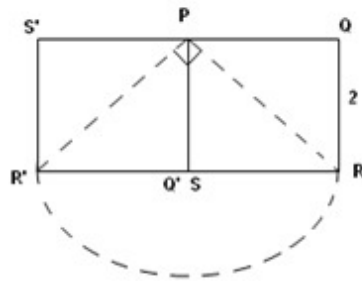
What is the value of each individual internal angle?

- A. 120degrees**
- B. 150 degrees**
- C. 160 degrees**
- D. 170degrees**

E. 180degrees

3. Col A: Area of rectangle whose perimeter 20
Col B: Area of rectangle whose perimeter 24

4.



If square PQRS is rotated by 90° through 'P' forming a square PQ'R'S', then find the distance travel R (R to R')?

- A. $\sqrt{2}$
- B. n
- C. $2n$
- D. $4n$
- E. $n\sqrt{2}$

(Similar to this)

5. Given a set of numbers 1, 2, 3, 4 and 5, how many different numbers are possible for the sum $x + y$?

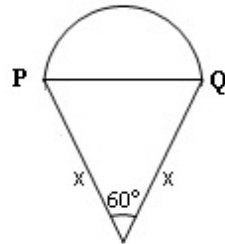
6. Given a series a_1, a_2, \dots, a_n . If $a_1 = -4$, $a_2 = 5$ and $a_n = a_{(n-2)} - a_{(n-1)}$, then find the sum of first 10 terms of the series?

[NOTE: 1, 2, (n-2), (n-1) and n in the above question are subscripts].

7. Col A: $(\frac{1}{25} + \frac{1}{26} + \frac{1}{27} + \frac{1}{28} + \frac{1}{29} + \frac{1}{30})$
Col B: 0.2

8. If $\frac{1}{(x-y)^{-1}} + \frac{1}{(x+y)^{-1}} = 4$, then find the possibilities of x and y?

9.



Given circumference of the circle as 50π . Find the perimeter of the triangle?

10. Given that 'P' takes 4 hours to complete a work, 'Q' takes 6 hours to complete the same work and 'R' takes 12 hours to complete the same work. If three persons work together to complete the same work, what percentage work done by 'P'?

(Similar to this)

11. Given $Q = 968 \times 18$

Col A: $Q + 968$

Col B: 968×19

12. A plant grows $\frac{1}{7}, \frac{1}{8}, \frac{1}{9}, \frac{1}{10}, \frac{1}{11}, \frac{1}{12}, \frac{1}{13}$ each year for 6 years. Another plant grows $\frac{1}{14}, \frac{1}{15}, \frac{1}{16}, \frac{1}{17}, \frac{1}{18}, \frac{1}{19}$ each year for 6 years.

Col A: Height of 1st plant in six years

Col B: Height of 2nd plant in six years

1. Given a number 990. Find how many distinct prime factors other than 2 are possible for 990?

2. Col A: $(1-2+3)!$

Col B: $1! \times 2! \times 3!$

3. Given a figure with circle in which a line passes through the centre and another line is a tangent at the bottom.

the circle. These two lines are parallel. Now a line is drawn connecting the two points where across the circle and it's a hypotenuse. Asked the angle formed by the line?

4. Given a set of values: $\{k-1, k, k+1, k+2, k+3\}$. Find the ratio of mean and median?

5. Col A: Area of rectangle whose perimeter 20

Col B: Area of rectangle whose perimeter 24

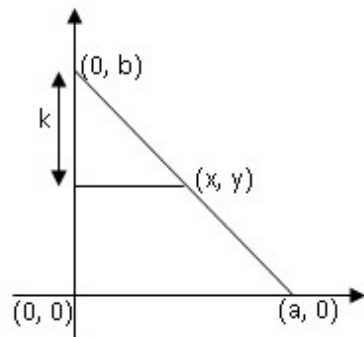
6. Given a series a_1, a_2, \dots, a_n . If $a_1 = -9$, $a_2 = -4$ and $a_n = a_{(n-1)} - a_{(n-2)}$, then find the sum of first 100 n series?

[NOTE: 1, 2, (n- 2), (n-1) and n in the above question are subscripts].

7. Given that 'P' takes 4 hours to complete a work, 'Q' takes 6 hours to complete the same work and 'R' takes 12 hours to complete the same work. If three persons work together to complete the same work, what is the percentage of work completed by 'P'?

(Similar to this)

8.



What is the value of (x, y) ?

9. In an apartment 92% have cars and 14% have bikes and everyone in the apartment have either bike or car.

Col A: Fraction of the people having car as well as bike

Col B: $\frac{1}{10}$

10. If $0 < x < 20$ and $y = 2x + 3$, then

Col A: The different solutions available for Y if it has to be an integer
Col B: 20

11. Col A: $(1/25 + 1/26 + 1/27 + 1/28 + 1/29 + 1/30)$
Col B: 0.2

12. Given $(1/(x+y)) - 1 + (1/(x-y)) - 1 = 4$. Which of the following must be true?

I. $x = 2$

II. $y = 0$

III. $y = -1$

A. Only I

B. Only II

C. Both I and III

& so on.....

13. If x and y are positive integers and $x - y$ is an even number, then

Col A: The remainder when $x^2 + y$ is divided by 2

Col B: 0

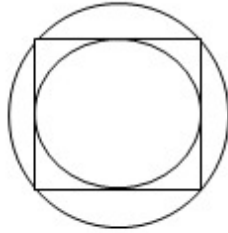
14. Given a circle with length of arc as ' $3\pi/2$ ' and area of the sector as ' n '. Find is the value of radius of circle?

15. Given a series 3, 3^2 , 3^3 , 3^4 , 3^5 .

Col A: Arithmetic mean of the series

Col B: Median of the series

16.



Find the ratio of smaller circle area to bigger circle area?

17. Given a polygon of 12 sides. What is the measure of the interior angle of the polygon?

18. There are two table 'S' and 'T' and having some number of coins on each of them, when 3 coins are taken from 'S' and put it on 'T', then they have same **number** of coins on each table. If 7 coins are taken from 'T' then the number of coins on 'T' will be three times the number of coins on 'S'.
total number of coins on both 'S' and 'T'?

19. Given $x + y = 4$ and $2x + 3y = 7$.

Col A: x

Col B: y

1. If $\frac{3}{13} < x < \frac{4}{13}$, then the possible value of x is?

A. $\frac{9}{26}$

B. $\frac{17}{52}$

C. $\frac{19}{65}$

& so on....

Ans: C

2. If $b = \text{mod}(15x+20y)$, then

Col A: The smallest possible value of 'b'

Col B: 10

Ans: B

3. If $2.8! + 10! = x \cdot 8!$, then the value of x is?

Ans: 92

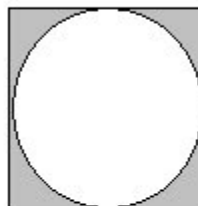
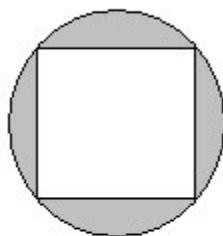
4. If $x^2 + 2x + f = 0$ & $x^2 + 4x + g = 0$, then

Col A: f

Col B: g

Ans: Cannot be determined

5.



If the radius of the above two circles is 'r', then

Col A: Area of the shaded region of A

Col B: Area of the shaded region of B

Ans: A

6. Given a triangle inscribed in a circle with angles x, y & z. If $x = y$, then

Col A: x

Col B: z

Ans: Cannot be determined

7. Col A: 0.9999/0.9998
 Col B: 1.0002/1.0001
 Ans: A

8. If a box contains 10 machines, in which 3 are defective then find the probability that none are de
 Ans: 7/10

9. Col A: $3^{(x^2 + 1)}$
 Col B: $3^{(x^2 + 1)^2}$
 Ans: Cannot be determined

10. Given $R1 = (-1, 0, 1)$, $R2 = (1, 1, 2)$ & $R3 = (-3, -2, -1, 0, 1, 2, 3)$ and $s1, s2$ & $s3$ are
deviations of $R1, R2$ and $R3$ respectively.

- i. $s1 > s2$
- ii. $s2 > 5$
- iii. $s3 > 0$
- A. None
- B. I & II
- C. II & III
- & so on...

Ans: Only condition iii satisfies.

11. Col A: $\sqrt{2} * \sqrt{6} * \sqrt{21}$
 Col B: 9
 Ans: A

12. Col A: Median of days in February in a leap year.
 Col B: Median of days in February in a non-leap year.
 Ans: A

13. In an examination, number of marks was given like twice the number of correct questions minus wrong questions. If a student gets 100 marks, then

Col A: Number of question he answered correctly
 Col B: 50
 Ans: A

14. If a man covers half of the distance in 9 hours at an average rate of 35mph and if he had to cover

distance in 'T' hours, then what is the rate in terms of 'T' for the next half distance?

Ans: $315/(T-9)$

1. If $3/13 < x < 4/13$, then the possible value of x is?

A. $9/26$

B. $17/52$

C. $19/65$

& so on....

Ans: C

2. If $b = \text{mod}(15x+20y)$, then

Col A: The smallest possible value of 'b'

Col B: 10

Ans: B

3. If $2.8! + 10! = x \cdot 8!$, then the value of x is?

Ans: 92

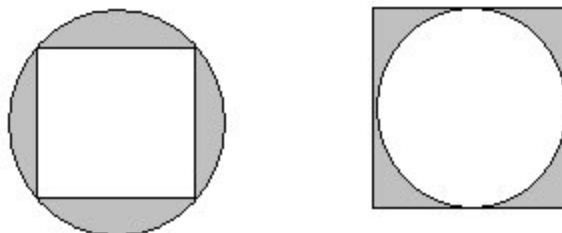
4. If $x^2 + 2x + f = 0$ & $x^2 + 4x + g = 0$, then

Col A: f

Col B: g

Ans: Cannot be determined

5.



If the radius of the above two circles is 'r', then

Col A: Area of the shaded region of A

Col B: Area of the shaded region of B

Ans: A

6. Given a triangle inscribed in a circle with angles x, y & z. If $x = y$, then

Col A: x

Col B: z

Ans: Cannot be determined

7. Col A: $0.9999/0.9998$

Col B: $1.0002/1.0001$

Ans: A

8. If a box contains 10 machines, in which 3 are defective then find the probability that none are defective

Ans: $7/10$

9. Col A: $3^{(x^2 + 1)}$

Col B: $3^{(x^2+1)^2}$

Ans: Cannot be determined

10. Given $R1 = (-1, 0, 1)$, $R2 = (1, 1, 2)$ & $R3 = (-3, -2, -1, 0, 1, 2, 3)$ and $s1, s2$ & $s3$ are deviations of $R1, R2$ and $R3$ respectively.

i. $s1 > s2$ ii. $s2 > 5$ iii. $s3 > 0$

A. None

B. I & II

C. II & III

& so on...

Ans: Only condition iii satisfies.

11.

Col A: $\sqrt{2} * \sqrt{6} * \sqrt{21}$

Col B: 9

Ans: A

12.

Col A: Median of days in February in a leap year.

Col B: Median of days in February in a non-leap year.

Ans: A

13. In an examination, number of marks was given like twice the number of correct questions minus wrong questions. If a student gets 100 marks, then

Col A: Number of question he answered correctly

Col B: 50

Ans: A

14. If a man covers half of the distance in 9 hours at an average rate of 35mph and if he had to cover the distance in 'T' hours, then what is the rate in terms of 'T' for the next half distance?

Ans: $315/(T-9)$

2. If $2.8! + 10! = x \cdot 8!$, then the value of x is?

Ans: 92

how 92 would you please explain

As per as I know $2.8! = 4.69417421$

10. Given $R1 = (-1, 0, 1)$, $R2 = (1, 1, 2)$ & $R3 = (-3, -2, -1, 0, 1, 2, 3)$ and $s1, s2$ & $s3$ are the standard deviations of $R1, R2$ and $R3$ respectively.

i. $s1 > s2$ ii. $s2 > 5$ iii. $s3 > 0$

A. None

B. I & II
C. II & III
& so on...

Ans: Only condition iii satisfies.

We know $S.D = \sqrt{\frac{\sum (X-M)^2}{(N-1)}}$
for R_1 , $M=0$, so $S_1.D = \sqrt{\frac{(1+0+1)}{2}} = \sqrt{1}$
For R_2 , $M=4/3$ so $S_2.D = \sqrt{1/3}$
so I think $s_1 > s_2$

correct me if I am wrong

10q.
 $s_1 = \sqrt{2/3}$
 $s_2 = \sqrt{2}/3$
 $s_3 = 2$

so, $s_3 > s_1 > s_2$

3q .
 $2.8! + 10! = x.8!$
 $8!(2+10*9) = 92*8!$, so $x=92$

please correct me

13. $100 = 2 * \text{correct\#} - \text{false\#}$,
So, if $\text{false\#} = 0$, $\text{correct\#} = 50$
and if $\text{false\#} > 0$, $\text{correct\#} < 50$
Therefore, D is the answer.

Please correct me.

sry dude i solvd the thing in a diffrent manner
check out this in equations

$100 = 2 \text{ correct} - \text{wrong}$
 $100 = 2x - y$

try to guess the values trail n erorr where this satisfies
if 100 is result then value $x=67$ satisfies apprx and maximum

so no of qs he ans correctly is 67

so $A > B$

Why don't you consider the case when there is no false questions answered?
Also, I did a typo last time; I correct it here; So:

13. $100 = 2 * \text{correct\#} - \text{false\#}$,
So, if $\text{false\#} = 0$, then $\text{correct\#} = 50$
and if $\text{false\#} > 0$, then $\text{correct\#} > 50$
Therefore, D is the answer. Isn't it?

1. Given a series of numbers $(-0.5)^{-2}$, $(-0.5)^{-1}$, $(-0.5)^0$, $(-0.5)^1$, $(-0.5)^2$, find the range of the

Ans: 6

2. If $x^2 = y$, then

Col A: $5x/y$

Col B: x^2

Ans: D

3. Given  a square inscribed in a circle, then

Col A: The radius of the circle

Col B: The side of the square

Ans: B

4. If $g(x) = |x|$ for $x < 1$ &
 $g(x) = |x-1|$ for $x > 1$, then
find the value of $g(-2) - g(2)$?

Ans: 1

5. Given a line passes through $(-1, -1)$, $(100, 101)$ & $(x, 3)$, find the value of 'x'?

Ans: $151/51$

6. There are 10 numbers in a sequence the starting number is 5, the rest are obtained by doubling the number and subtracting 3, then what is the 4th number?

Ans: 19

7. The approximate value of $61.19(0.98)^2/\sqrt{401}$ is?

Ans: 3

8. Given two points $(-1, 3)$ and $(4, 4)$. Find the slope of it?

Ans: $1/5$

9. Given three values as $d_1 = 2$, $d_2 = 3$ and $d_3 = 4$, then

Col A: -2

Col B: $d_1(d_2 - d_1 \cdot d_3)$

Ans: A

10. If $0.0625y = x \cdot (2.5)/4$

Col A: x

Col B: y

Ans: D

11. A right triangle was drawn and a square was drawn by considering each side of triangle as its side

Col A: The area of the square formed with hypotenuse as side

Col B: The sum of two other squares

Ans: C

12. Given $b = \text{mod}(15x + 20y)$, where x and y are integers. If x, y are not equal to 0 and if 'b' should be an integer, then

Col A: The smallest positive value of b

Col B: 5

Ans: C

13. If $k/m = m/r = 4/5$ & if $k = 6$, then what is the value of r ?

Ans: $6 * (5/4)^2$

14. Col A: 10^{30}

Col B: $0.001^{(-10)}$

Ans: C

Quant:

1. Given a right angled triangle. If the length of the side opposite to 90degrees is $k+6$ and opposite to 30degrees is k , then find the value of k ?
(similar to this)

2. A price of product 'x' is increased by $p\%$ to give new price 'y' and then price of 'y' is reduced by $r\%$ to give price 'z'. If $z = x$, then find the value of r in terms of p .

Col A: p

Col B: r

3. Given that area of a square is 9 and that of a rectangle is 8.

Col A: Perimeter of square

Col B: Perimeter of rectangle

4. A group of 1 professor and 3 students have to be made from 4 professors and 5 students.

Col A: Different ways in which the groups can be formed

Col B: 40

5. What could be the equation of the line, if the slope is $-2/3$ and the x and y coordinates are $(0,0)$?
(something like this)

6. If $8! + 10! = (8! * x)$, then what is the value of x ?

7. Find the slope of the line $5 = 3x + 2y$?

(Something like this)

Admin,
drrajusgre.com

1. 4
2. A
3. D

- 4.C
- 5. $2X+3Y=0$
- 6.91
- 7. $-3/2$

Four letters— a , b , c , and d —represent one number each from one through four. No two letters represent the same number. It is known that $c > a$ and $a > d$. If $b = 2$, then $a =$

- (A) 1
- (B) 2
- (C) 3
- (D) 4
- (E) Not enough information to decide.

Quant:

**1.Col A: $2x-3y$
Col B: $3x-2y$**

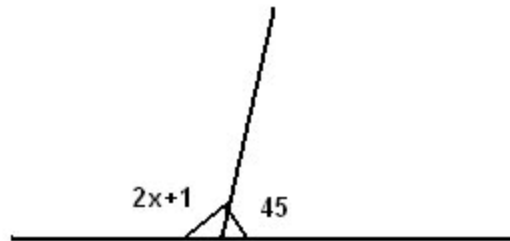
**2. There was figured question in which a house is given with length and breadth of rooms also given and the remaining ones.
(something like this)**

**3. Given $b = \text{mod}(-15x + 20y)$, where x and y are integers. If x, y are not equal to 0, then
Col A: The smallest positive value of b
Col B: 5**

4. In the coordinate geometry, if a line passes through the points $(-11, -21)$, $(20, 22)$ & $(x, 2)$ then what is

5. What is the value of $10^2 - (1/10^4) + 2^4 - (1/2^4)$?

6.



Given a figure like above. Find the value of x?

Admin,
drrajusgre.com

1-->d
2-->????
3-->d
4-->5.11
5-->????
6-->67*
Snuggest me if i was wrong

Quant:

1. If $-8 \leq x \leq 10$ & $x + y = 4$, then find the least possible value of xy ?

2. Given that there are two concentric circles, if the radius of larger one is 3 more than the s
find difference in their circumference?

3. Given that a **Train A** is traveling on a straight track at a constant speed of 90km/hr & Train B is traveling
track at a constant speed of 50km/hr

Col A: Distance traveled by train A

Col B: Distance traveled **by train B**

4. Given a function f which is defined for each positive three digit integer 'n' as $f(n) = (2^x)(3^y)(5^z)$, where x, y, z are hundreds, tens and units digits of n, respectively. If m and v are three-digit positive integers such that $f(m) = f(v)$, then what is the value of $m - v$?

- A. 8
- B. 20
- C. 19
- & so on.....

5. Given $|x| = |y|$ & $xy < 0$

Col a : $x+y$

Col b : 0

6. When 'n' is divided by 7 remainder is 3, then what is the remainder when $(2n-1)$ is divided by 7. ('n' is a positive integer)

7. If $2.8! + 10! = (n) \cdot 8!$, then what is the value of n?

Admin,
drrajusgre.com

1-->-60

2-->6*PI

3-->a

4-->b

5-->d

6-->5

7-->180

plz inform me for further suggests if any One of the above found wrong

1. If $-8 \leq x \leq 10$ & $x + y = 4$, then find the least possible value of xy ?

ans: -96, if $x=-8, y=12, xy=-96$;

2. Given that there are two concentric circles, if the radius of larger one is 3 more than the smaller one then find their circumference?

ans:6pi

3. Given that a Train A is traveling on a straight track at a constant speed of 90km/hr & train B is traveling on a constant speed of 50km/hr

Col A: Distance traveled by train A

Col B: Distance traveled by train B

ans:D,think not enough information.

4. Given a function f which is defined for each positive three digit integer 'n' as $f(n) = (2^x)(3^y)(5^z)$, where x, y, z are hundreds, tens and units digits of n, respectively. If m and v are three-digit positive integers such that $f(m) = f(v)$, then what is the value of $m - v$?

- A. 8
- B. 20
- C. 19
- & so on.....

ans:can anyone explain this.

5. Given $|x| = |y|$ & $xy < 0$

Col a : $x+y$

Col b : 0

ans: C, if $xy < 0$, then x, y must be of opposite sign. then $x + y = 0$;

6. When 'n' is divided by 7 remainder is 3, then what is the remainder when $(2n-1)$ is divided by 7. ('n' is a [pos](#)

ans: 5

7. If $2 \cdot 8! + 10! = (n) \cdot 8!$, then what is the value of n?

ans: 92,

1. -96
2. $6 \cdot \pi$
3. D
4. ?
5. C
6. 5
7. 92

Quant:

1. If the Arithmetic mean of 20 numbers is 12 and Arithmetic mean of 10 numbers is 6, then what is the combined mean?

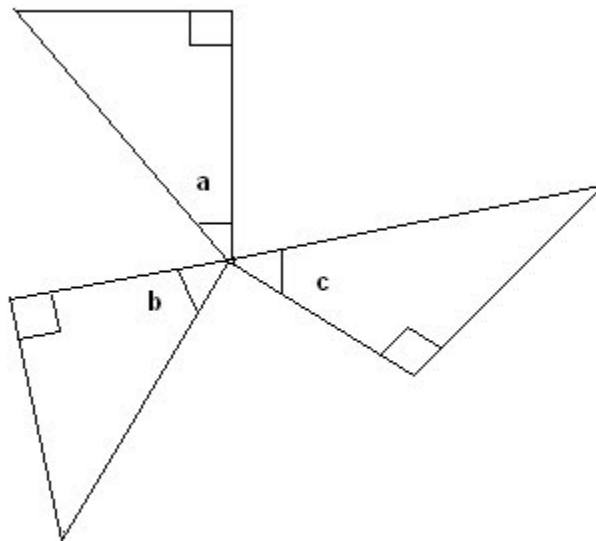
2. If $x > 0$, then

Col A: 2^{-x}

Col B: -2^x

3. Given that a solid has 1 red color on one of its face and the probability of getting red is $1/8$. When is it tossed, is the probability of getting red always?

4.



Given a figure like above.

Col A: $a + b + c$

Col B: 180

5. Given $-1 < x < 1$ and $-2 < 2y < 4$

Col A: x

Col B: y

6. Given diameter of a circle as 2ft and the person travels around the circumference of the circle. In that m 324fts, how many revolutions it takes?

A. 70

B. 60

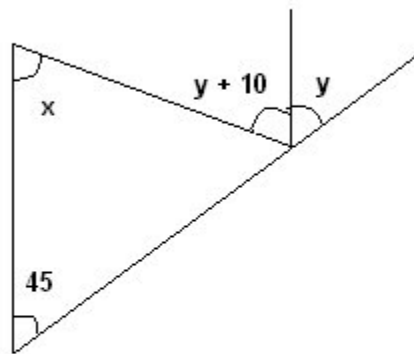
C. 50

D. 40

E. 30

(Something like this)

7.



Given a figure like above. Find the value of x ?

8. A Jose plans to travel 500 to 600miles and the petrol costs 0.90\$ to 1.20\$ per gallons. If the car travels to 24miles per gallon, then how much have to be spent for petrol for that trip.

A. 22\$

B. 23\$

C. 27\$

D. 27.50\$

& so on...

9. Col A: 25% of 75

Col B: 25/99 of 75

10. Given a right angle triangle with its sides '2x' & 'x' respectively. If the hypotenuse and perimeter of the triangle are some value, find the value of 'x'?
(Similar to this)

Admin,
drrajusgre.com

1=10.61
2=d
3=!!
4=d
5=b
6=b(51.14)
7=!!
8=!!
9=b
10=!!

1. 10
2. A
3. 1/64
4. D
5. D
6. $(567/11)=51.5....$ So the no. of revolution is 51
7. Ques. error
8. D
9. B
- 10.

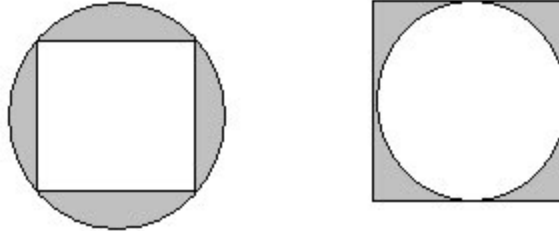
- 2.
- 3.
- 4.
5. **Quant:**

1. If $x^2 + 2x + f = 0$ & $x^2 + 4x + g = 0$, then
Col A: f
Col B: g

2. If $0 < x < 10$ and $y = 2x + 3$, then find the number of possible sets of (x, y)?

3. Given a line with y-intercept and asked to find x-intercept?

4.



Given a circle inscribed in a square and a square inscribed in a circle like above. If the radius of two

Col A: Area of the shaded region of first figure

Col B: Area of the shaded region of second figure

5. Col A: $8c^2$

Col B: $8c^6$

6. The slope of the line $5 = 3x + 2y$ is.....

7. Col A: Standard Deviation of 22, 23, 24, 25, 26 & 27

Col B: Standard Deviation of 222, 223, 224, 225, 226 & 227

8. If $6.8! + 10! = 8! * x$, then find x ?

9. Given 'n' is a positive integer. When 'n' is divided by 7 remainder is 3, what is the remainder when 'n' is divided by 7?

10. Given two circles of equal size and the distance between their centers is 12. If the two circles touch each other & distance between their edges is 4, then find the area of any one of the circle?

Admin,
drrajusgre.com

1-->d

2-->We Get So many Values(i think it is INFINITY)

3-->!!!
4-->b
5-->c
6-->-(3/2)
7-->b
8-->96
9-->5
10-->16*PI 🟡

$$8!(6+9*10)=8!*x$$

divide both sides by 8!

therefore $x=96$

The answer for 3Q is.....If we want to find out X intercept put $Y=0$ in the equation and solve and if we want Y intercept put $X=0$ in the same equation....This is a simple logic that can be followed....

Quant:

1. If $a < 0 < b < c$, then

Col A: ac/b

Col B: ac

2. Given two sets of data K1 & K2 as $\{1, 2, a\}$ and $\{1, 2, 1\}$, where 'a' is an integer which is not equal to 1 or 2, then

Col A: Standard Deviation of K1

Col B: Standard Deviation of K2

3. If a number is divisible by 5 the remainder is 3 and when the same number is divided by 7 the remainder is 4. What is the least possible number?

4. If x_1, x_2, x_3, x_4 and x_5 belongs to a series such that $x_n = n\{[(-1)^n] - 1\}$, then what will be the difference between the largest and the smallest term?

(Here 1, 2, 3, 4, 5 & n are suffixes)

5. Given a line $5x - y - 3 = 0$ with slope 'L' and other line $5x + y + 3 = 0$ with slope 'm'

Col A: L

Col B: M

Admin,
drrajusgre.com

1. D
2. A
3. 18
4. 10
5. A

VERIFY THE RESULTS....

1--->d
2--->a
3--->18
4--->-8
here $x_n = n \{ [(-1)^n] - 1 \}$
we want the difference between largest and smallest numbers i.e $x_5 - x_1$
 $x_5 = 5[-1-1]$
 $= -10$
 $x_1 = 1[-1-1]$
 $= -2$
 $= x_5 - x_1$
 $= -10 - (-2)$
 $= -10 + 2 = -8$
5--->a
if there are any wrong ans plzz suggest me....

Here I thought x_5 & x_1 are the last & first number....not the largest & smallest number...
So I got the ans. = $0 - (-10)$
 $= 10$
(not sure abt the ans)

Quant:

1. If $S = 7^0 + 7^1 + 7^2 + \dots + 7^{20}$, then
Col A: The remainder when 'S' is divided by 14.
Col B: 1

2. Given that two lines k, l pass through a point (1, 1). If 'k' also passes through (0,a) and 'l' also pass thro
Col A: a
Col B: b

3. If $\frac{3}{13} < x < \frac{4}{13}$, then which of the following could be a possible value of x?
A. $\frac{9}{26}$
B. $\frac{14}{39}$
C. $\frac{17}{52}$
D. $\frac{19}{65}$
& so on....

4. Given $\frac{2}{3}$ of the plates are stained, $\frac{1}{2}$ of them are scratched and $\frac{1}{3}$ are both scratched and stained. I

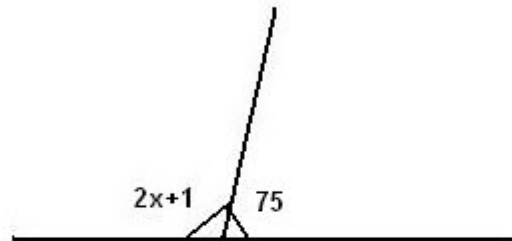
clean without scratch or stain, then find the total number of plates?

5. If $0.0625y = x(2.5)/4$

Col A: x

Col B: y

6.



Given a figure like above. Find the value of x ?

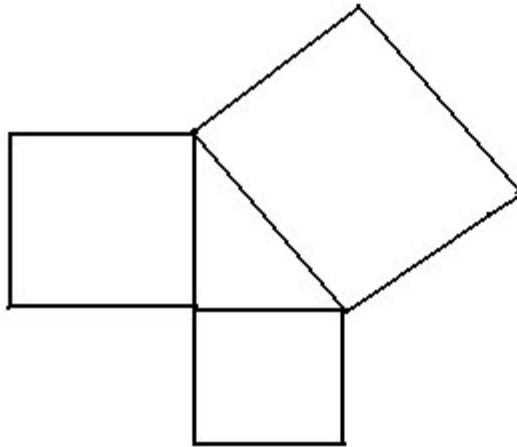
7. Given a series $x, w, y, z, 0, 1, 1, 2, 3$. If each number is the sum of previous two numbers, then what is t

8. If ' n ' is a negative integer, then

Col A: $(4/3)^{-n}$

Col B: $(3/4)^n$

9.



A right triangle was drawn and a square was drawn by considering each side of triangle as its side as the f

Col A: The area of the square formed with hypotenuse as side

Col B: The sum of two other squares

10. A triangle with angle x , y , z was inscribed in a circle. If two angles ' x ' and ' y ' are equal, then

Col A: x

Col B: z

11. Which of the following lines has slope $2/3$?

A. $4 = 2y - 3x$

B. $5 = 3y - 2x$

& some more options.....

12. If consider the line $3x - y < 1$, then in which quadrant the line lie?

A. First Quadrant

B. Second Quadrant

C. Third Quadrant

D. Fourth Quadrant

E. So on....

13. If $0.8/5 = 1/n$, then find the value of n ?

14. The students were given two sets of questions; they can mark either yes/ no or can leave it as unanswerable if people were asked, for first question if

400 answered YES
340 answered NO &
260 left unanswered and for second question, if
450 answered YES
310 answered NO &
240 left unanswered,
then, find the minimum number of people who gave unanswered option for both questions?

15. If $x > 0$, then
Col A: $2/x$
Col B: $x/2$

16. If $x = -2 + y$ & $y < 0$, then
Col A: $x^2 + |x|$
Col B: $x^2 + x$


17. If there are 8 apples in a bag; 2 red and 6 green, then
Col A: Total number of ways of choosing 2 red apples out of 8
Col B: Total number of ways of choosing 6 green apples out of 8

18. Col A: $8!/(2!*6!)$
Col B: $8!/(6!*2!)$

19. An equation of a line is given as $24y + 16x - 8 = 0$. If a line parallel to above, have one of its points as (1, 2), then the equation of that line?
Ans: $3Y + 2X = 0$ (Given by examiner)

20. If $f(n) = [(-1)^n] * c * n$, where c is given as cost of some(XXX). If $f(1)$, $f(2)$ and $f(3)$ are the similar function, then the difference between the largest and smallest among $f(1)$, $f(2)$ and $f(3)$ is 20 where c is a positive value, then
Col A: $f(4)$
Col B: 16
(Something like this)

Admin,
drrajusgre.com

- (1) C
(2) D
(3) D
(4) ans is cm in -VE ????
(5) B
(6) 52
(7) -3
(8)  C
(9) C
(10) D
(11) B
(12) A
(13) 6.2
(14) 20

1. C
2. D
3. D
4. 480
5. D (X & Y MAY BE NEG.)
6. 52
7. -3
8. C
9. C
10. D
11. B
12. B
13. 25/4
14. 0 (AND MAX. =240)
15. D
16. A
17. C
18. C
19. 🤔(GIVEN)
20. C

PLEASE VERIFY THE ABOVE RESULTS...

1-->c???(can any one explain)
2-->d
3-->d
4-->80.83
5-->b
6-->52
7-->-3
8-->a
9-->c
10-->d
11-->b
12-->??(can any one explain)
13-->6.25
14-->??(can any one explain)
15-->d
16-->a
17-->c
18-->c
19-->given one is correct
20-->c

1=B i guess
2=c i guess
3=19/65
4=720
5=B i guess
6=52degrees
7= -3
8=C
9= C

10=D

11= write all equations in the options in the form $Y=mX+c$where m is the slope and c is the y intercept

12=2nd Quadrant.

13= $25/4$

14 ?

15=D

16=A

17=C

18=C

19 $2x+3y=0$

20=C

I guess 5th answr is **B** coz here it doesnt matter whether X and Y are +ve or negative.what only matters here is the co problem is given...the only thing tht matters here is whether $X>Y$ or $X<Y$ or $X=Y$upon solving i got answer as **B**

Quant:

1. If x and x+2 are both factors of y then which one is greater?

Col a: $x(x+2)$

Col b: y

2. Last year, $1/4$ of factory workers are architects. one year ago 60 workers newly joined in which 50 are a one left the factory since last year and if now $1/3$ of factory workers are architects then find the total number of workers?

3. Given a square with a circle inscribed in it and the radius of the circle is 'r'.Another circle is given with a in it and the radius of this circle is also 'r'. What is the ratio of area of smaller circle to area of larger circle?

4. If k-3 is multiple of 5 and k+2 is multiple of 3 then what is k^2 ?

A. 16

B.13

C. 4

& so on...

5. In a class of 20 students, one half of the students are boys, if a teacher has to select 7 students and the

Col A: What is the probability that the 7th student is a girl

Col B: $2/7$

6. If $0 < x < 1$, then

Col A: $x^2 - 1/x$

Col B: $x - x^{-2}$

Admin,
drrajusgre.com

1. D
2. 360(NOT SURE)
3. 1
4. A
5. C
6. A

VERIFY THE RESULTS.....

Quant:

1. If $x < 0$, then

Col A: $x^2 + 1$

Col B: $x(x+1)$

2. Given two lines which are perpendicular to each other. If the equation of one line is $y = \frac{1}{10}x + 6$, then equation of second line?

3. Col A: $(7^4 + 7^5) + (8^6 + 8^7)$

Col B: $(7^4(8) + 8^6(9))$

4. If 'n' is a least number in five consecutive positive integers, then what is the average of these 5 integers?

5. Given a triangle with three of its sides given as 10.5cm, 4.5cm & 5.6cm and three angles as x, y & z. The

Col A: $y+z$

Col B: x

6. There are 3 containers named p, q & r each contains an amount of sugar in the following ratios. If +the present in container 'p' is $\frac{1}{3}$ rd of 'q' same as $\frac{2}{3}$ rd of 'r', then what is the ratio of (R+Q) to R?

**7. Given a diagram with two of its angles given and asked to find the third angle?
(something like this)**

Admin,
drrajusgre.com

Answers:

1. A

2. This is an optional based question.

Check out the equations(in the options)... which has slope -10.

3. Simple calculation.

4. $(5n + 10) / 5 = n + 2$

5. D

6. 3 : 1

7. Easy Question

1=A

2= the other line slope must be -10

$$3=C$$

$$4=n+2$$

$$5=D$$

$$6=3:1$$

7= depending on the actual question..easy one.... **Quant:**

1. The cost for printing is given by an equation $\$ = (0.12c+20p)$, where 'c' is the number of copies and p is pages.

Col A: Printing cost of 400 copies having 8 pages each

Col B: Printing cost of 800 copies having 4 pages each

2. Given that a person travels in a circular path of diameter 2cm. If the total distance traveled by him is 31 the number of revolutions made by him?

3. How many four-digit odd numbers are there whose hundredth place is 6 and it is an odd number?

A. 450

B. 650

C. 950

D. 850

& so on...

4. Two cyclists are moving towards each other at 10 miles/hour. They are now 50 miles apart. At this instant a fly starts from one cyclist and move towards other and moves to and fro till the two cyclist meet each other. If the fly flies at 15 miles/hour, what is the total distance covered by the fly?

5. When 't' is divided by 9, the remainder is 1 & when it is divided by 11, the remainder is 8. Find the value of t.

6. Given a triangle with angles x, y & z and is inscribed in a circle. If two angles of triangle 'x' and 'y' are equal, find the value of z.

Col A: x

Col B: z

Admin,
drrajusgre.com

Last edited by admin on Sat Jan 17, 2009 11:39 am; edited 1 time in total

1. B

2. 50

3. A

4. 37.5

5. 19

6. D

Quant:

1. Given that there are six teams in quiz and their respective scores are 31, 24, 14, 10, 43 & 47 and there are 7 judges in this quiz. What is the minimum number of teams which must get 7 or more than 7 score from any one of the judges?

2. A sequence 'S' has the terms $x_1, x_2, x_3, x_4, x_5, x_6, \dots$ after the first term, each term is half the previous term. If $x_1 + x_6 = 42$, then what is the value of $x_1 + x_3 + x_5$?

3. A cylinder 'm' of height 2 and radius 3 is given. Now another cylinder 'k' of double the height of previous one is given.

Col A: Double the volume of 'm' cylinder

Col B: volume of cylinder k

4. How many four-digit odd numbers are there whose hundredth place is 6 and it is an odd number?

A. 450

B. 650

C. 950

D. 850

& so on...

5. If the probability that it rains on day 1 is 70 % and on day 2 is 40% whether it rains on first day or not, what is the probability that it neither rains on day 1 nor on day 2?

A. 92%

B. 28%

....so on

6. If 'k' is any positive integer, then

Col A: The remainder when $5(10^k) + 1$ is divided by 3

Col B: The remainder when $5(100^k) + 1$ is divided by 3.

7. If $0 < x < y < z$ and if 'y' is a multiple of 5, then

Col A: The Remainder when ' $x+y+z$ ' divided by 5

Col B: 0

Admin,
drrajusgre.com

1-nt sure..according to me..all 6 can get 7 or more than 7 by a single judge

2-84

3-B

4-A

5-?? shud b 90..mutually exclusive as second day rain doesn't depend on the 1st day..so 30% probability of not getting rain on second day..together 90%..not sure..

6-C

7-D

pls let me know if there are any variations in the answers

1. Given that there are six teams in quiz and their respective scores are 31, 24, 14, 10, 43 & 47 and the judge for this quiz. What is the minimum number of teams which must get 7 or more than 7 score from the judge?

Ans: 3

(if the scores are given in integers)

& **Ans: 2**

(if the scores are given in decimals)

2. A sequence 'S' has the terms $x_1, x_2, x_3, x_4, x_5, x_6, \dots$ after the first term, each term is half the previous term. If $x_2 + x_4 + x_6 = 42$, then what is the value of $x_1 + x_3 + x_5$?

Ans: 84

3. A cylinder 'm' of height 2 and radius 3 is given. Now another cylinder 'k' of double the height of 'm' and double the radius of previous one is given.

Col A: Double the volume of 'm' cylinder

Col B: volume of cylinder k

Ans: B

4. How many four-digit odd numbers are there whose hundredth place is 6 and it is an odd number?

A. 450

B. 650

C. 950

D. 850

& so on...

Ans: A

5. If the probability that it rains on day 1 is 70 % and on day 2 is 40% whether it rains on first day is the probability that it neither rains on day 1 nor on day 2?

A. 92%

B. 28%

....so on

Not in the above options

Ans: 18%

6. If 'k' is any positive integer, then

Col A: The remainder when $5(10^k)+1$ is divided by 3

Col B: The remainder when $5(100^k)+1$ is divided by 3.

Ans: C

7. If $0 < x < y < z$ and if 'y' is a multiple of 5, then

Col A: The Remainder when 'x+y+z' divided by 5

Col B: 0

Ans: D

Quant:

1. A person's draw has 14 blue socks and 14 black socks. How many socks must be taken to get a pair of the same color?

A. 13

B. 14

C. 15

& so on....

2. If $N = 5^9 + 7^{10}$, then

Col A: What is the least factor of 'N' greater than 1

Col B: 3

3. There are 28 men in a room in that 14 men are selected out of which 7 are under 50 years

Col A: Percentage of men under 50

Col B: 40%

4. A line passing through (5,5) touches x-axis and y-axis at (x,0) and (0,y) respectively.

Col A: x

Col B: y

5. Given a diagram of a triangle with three angles x, y & z. If $x > 90$, then

Col A: x

Col B: $y + z$

6. Col A: Standard Deviation of 10, 30, 50, 70 & 90

Col B: Standard Deviation of 10, 45, 50, 55 & 90

Col A: Standard Deviation of A

Col B: Standard Deviation of B

7. If 'r' is an integer & 't' is an odd integer, then

Col A: The remainder when $(r+t)(t+1)$ is divided by 2

Col B: 1

8. Given that 'r' is a three digit number such that it contains 'x' in its hundredth place, 'y' in tens place. If $N_r(N \text{ subscript } r)$ is defined as 'x' is multiplied by 9, 'y' is multiplied by 6 and 'z' is multiplied by 5. The sum of these three products, then what is the value of the $N_{735}(N \text{ subscript } 735)$?

A. 72

- B. 79
- C. 86
- D. 91

Admin,
drrajusgre.com

- 1-->b
- 2-->b
- 3-->a
- 4-->c
- 5-->a
- 6-->c
- 7-->d
- 8-->d

Please correct me if there are any wrongs..

1. A person's draw has 14 blue socks and 14 black socks. How many socks must be taken to get [a](#) the same color?

- A. 13
- B. 14
- C. 15
- & so on....

Ans: C

2. If $N = 5^9 + 7^{10}$, then

Col A: What is the least factor of 'N' greater than 1

Col B: 3

Ans: D

3. There are 28 men in a room in that 14 men are selected out of which 7 are under 50years

Col A: Percentage of men under 50

Col B: 40%

Ans: D

4. A line passing through (5,5) touches x-axis and y-axis at (x,0) and (0,y) respectively.

Col A: x

Col B: y

Ans: D

5. Given a diagram of a triangle with three angles x, y & z. If $x > 90$, then

Col A: x

Col B: $y + z$

Ans: A

6. Col A: Standard Deviation of 10, 30, 50, 70 & 90

Col B: Standard Deviation of 10, 45, 50, 55 & 90

Ans: A

7. If 'r' is an integer & 't' is an odd integer, then
Col A: The remainder when $(r+t)(t+1)$ is divided by 2
Col B: 1
Ans: B

8. Given that 'r' is a three digit number such that it contains 'x' in its hundredth place, 'y' in tens place. If $N_r(N \text{ subscript } r)$ is defined as 'x' is multiplied by 9, 'y' is multiplied by 6 and 'z' is multiplied by 3, then what is the value of the N_{735} ($N \text{ subscript } 735$)?
A. 72
B. 79
C. 86
D. 91
Ans: D

Quant:

1. Col A: $0.9999/0.9998$
Col B: $1.0002/1.0001$

2. Given a line 'M' in xy-plane and if does not intersect the line $x = y$, then
Col A: Slope of the line 'M'
Col B: 0

3. Find the quadrant in which $3x - y < 1$ lies?
A. First Quadrant
B. Second Quadrant
C. Third Quadrant
D. Forth Quadrant
& so on...

4. If the Standard deviation of x, y & z is 'd', then
Col A: Standard Deviation of $x+1, y+1$ & $z+1$
Col B: $d+1$

5. If $x > 1$ and $f(x) = 5/((3/1-x)-2)$, then
Col A: The value of 'x' at which $f(x)$ is not defined
Col B: 2

6. A person has 'W' kg of grains for one week to feed some iguanas. If each iguana consumes 'x' kg per day then
Col A: Number of iguanas
Col B: $7w/x$

7. Given that there are 10 bulbs in a box. If two bulbs of them are defective, then find the probability that successive draws you get undefected bulbs (without replacement)?

8. If $8! + 10! = 8! \cdot x$, then find the value of 'x'?

9. Given a figure of right angled triangle inscribed in a circle and the area of right angled triangle is given 8 out the area of circle?

10. If $k = 10^{(2)} - 10^{(-2)} + 2^{(-2)} - 2^{(-2)}$, then the value of k is closest to which integer?

11. If $0 < x < 10$ & $y = 3x + 5$, then the number of ordered pairs of 'x' for which 'y' is an integer is?

12. Given that lines 'k' and 'm' intersect at (1, 1). If 'k' passes through (0, a) and 'm' passes through (0, b) slope of 'k' is less than 'm', then

Col A: a

Col B: b

13. There are some toys and some crates and when these toys are equally distributed in the crates none are 3 less crates, then each crate consists of 12 toys with 27 toys left. Find how many toys were there?

14. The remainder when 23 is divided by n is 2, then

Col A: n

Col B: 8

15. If $(4/2) \cdot (5/3) \cdot \dots \cdot (y+2)/y = 12$, then find the value of y?

16. If we move towards west in straight line for 6m and then to north for another 16m and then to west again 10m, then what is the distance between starting and ending point?

17. If $-1 < k < 1$ and $-2 < 2m < 4$, then

Col A: k

Col B: m

18. Col A: The remainder when $(10^{22})+1$ is divided 11

Col B: 2

19. Col A: $(3^{-10}) + (3^{-9}) + (3^{-9})$

Col B: 3^{-9}

20. If $u > 1$, $v > 1$ & $w > 1$ and if $u \cdot v \cdot w = 595$, then find the value of $u+v+w$?

Admin,
drrajusgre.com

1. Col A: 0.9999/0.9998

Col B: 1.0002/1.0001

Ans: A

2. Given a line 'M' in xy-plane and if does not intersect the line $x = y$, then

Col A: Slope of the line 'M'

Col B: 0

Ans: A

3. Find the quadrant in which $3x - y < 1$ lies?

A. First Quadrant

B. Second Quadrant

C. Third Quadrant

D. Forth Quadrant

& so on...

Ans: None

4. If the Standard deviation of x, y & z is 'd', then

Col A: Standard Deviation of $x+1, y+1$ & $z+1$

Col B: $d+1$

Ans: B

5. If $x > 1$ and $f(x) = 5/((3/1-x)-2)$, then

Col A: The value of 'x' at which $f(x)$ is not defined

Col B: 2

Ans: B

6. A person has 'W' kg of grains for one week to feed some iguanas. If each iguana consumes 'x' kg

Col A: Number of iguanas

Col B: $7w/x$

Ans: B

7. Given that there are 10 bulbs in a box. If two bulbs of them are defective, then find the probability successive draws you get undefected bulbs (without replacement)?

Ans: $8c3/10c3$

8. If $8! + 10! = 8! * x$, then find the value of 'x'?

Ans: 91

9. Given a figure of right angled triangle inscribed in a circle and the area of right angled triangle is find out the area of circle?

10. If $k = 10^{(2)} - 10^{(-2)} + 2^{(-2)} - 2^{(-2)}$, then the value of k is closest to which integer?

Ans: 100(to the given question)

11. If $0 < x < 10$ & $y = 3x + 5$, then the number of ordered pairs of 'x' for which 'y' is an integer is?

Ans: 29

For 'y' to be an integer, '3x' should be an integer(As $y=3x+5$).

Therefore possible values of '3x' to be an integer are 1, 2, 3, 4, 5, 6, 7, 8, 9 & $1/3, 2/3, 4/3, 5/3, 7/3, 11/3, 13/3, 14/3, 16/3, 17/3, 19/3, 20/3, 22/3, 23/3, 25/3, 26/3, 28/3, 29/3$.

12. Given that lines 'k' and 'm' intersect at (1, 1). If 'k' passes through (0, a) and 'm' passes through (0, b) & if the given slope of 'k' is less than 'm', then

Col A: a
Col B: b
Ans: B

13. There are some toys and some crates and when these toys are equally distributed in the crates there are 3 less crates, then each crate consists of 12 toys with 27 toys left. Find how many toys were there?
Ans: 9

14. The remainder when 23 is divided by n is 2, then
Col A: n
Col B: 8
Ans: D

15. If $(4/2) * (5/3) * \dots (y+2)/y = 12$, then find the value of y?
Ans: 7

16. If we move towards west in straight line for 6m and then to north for another 16m and then to south for another 10m, then what is the distance between starting and ending point?
Ans: $16\sqrt{2}$

17. If $-1 < k < 1$ and $-2 < 2m < 4$, then
Col A: k
Col B: m
Ans: D

18. Col A: The remainder when $(10^{22})+1$ is divided by 11
Col B: 2
Ans: C

19. Col A: $(3^{-10}) + (3^{-9}) + (3^{-8})$
Col B: 3^{-9}
Ans: A

20. If $u > 1$, $v > 1$ & $w > 1$ and if $u*v*w = 595$, then find the value of $u+v+w$?
Ans: 29

Quant:

1. Given $0 < x < 1$, if $12x$ is a **positive integer** then
Col A: Tenth's digit of x
Col B: 0

2. Col A: $(7^4+7^5) + (8^6+8^7)$
Col B: $(7^4(8) + 8^6(9))$

3. A sales company, gives Rs.1800 plus 15 percent of the amount from sales to its salesman if his sales are more than Rs.12000. If the salesman does a sales of Rs.x, where $x > 12000$ then

Col A: The Amount the sales man receives

Col B: $0.15x$

4. If a person moves towards west in [straight line](#) for 6m and then to north for another 16m and then to west for another 10m, then

Col A: The distance between starting and ending point

Col B: $16\sqrt{1.414}$

5. If $0 < x < y < z < w < 1$ and if 'w' is positive, then

Col A: x

Col B: z

6. If a, b, c, d & e are consecutive positive integers, then

Col A: Median of a, b, c, d & e

Col B: Mean of a, b, c, d & e

Admin,
drrajusgre.com

1. Given $0 < x < 1$, if $12x$ is a [positive integer](#) then

Col A: Tenth's digit of x

Col B: 0

Ans: D

2. Col A: $(7^4 + 7^5) + (8^6 + 8^7)$

Col B: $(7^4(8) + 8^6(9))$

Ans: C

3. A sales company, gives Rs.1800 plus 15 percent of the amount from sales to its salesman if his sales are more than Rs.12000. If the salesman does a sales of Rs.x, where $x > 12000$ then

Col A: The Amount the sales man receives

Col B: $0.15x$

Ans: A

4. If a person moves towards west in [straight line](#) for 6m and then to north for another 16m and then to west for another 10m, then

Col A: The distance between starting and ending point

Col B: $16\sqrt{1.414}$

Ans: C

5. If $0 < x < y < z < w < 1$ and if 'w' is positive, then

Col A: x

Col B: z

Ans: B

6. If a, b, c, d & e are consecutive positive integers, then

Col A: Median of a, b, c, d & e

Col B: Mean of a, b, c, d & e

Ans: C

Quant:

1. If $f(n) = [(-1)^n] * c * n$, where c is given as cost of some(xxx). If $f(1)$, $f(2)$ and $f(3)$ are the similar function, the **difference** between the largest and smallest among $f(1)$, $f(2)$ and $f(3)$ is 20, where c is a positive value, then find the value of c .
Col A: $f(4)$
Col B: 16

2. Col A: $(2m+1)^2$
Col B: $(2m+2)^2$

3. Given the area of the rectangle as 20 and asked to find the perimeter?

4. Col A: $3^{(x^2+1)}$
Col B: $3^{(x^2+1)^2}$

5. If a number is divisible by 5 the remainder is 3 and when the same number is divided by 7 the remainder is 2, then find the least possible number?

6. There are 'n' number of flags and the number 'n' is odd. If **the first flag** is red color and the even number of flags are white, then what are the number of red color flags?
Col A: Number of red flags
Col B: $n/2$

7. If $0 < x < 10$ & $y = 2x + 3$ and y is an integer, then find the number of possible sets of (x, y) ?

8. If $0.0625y = x * (2.5)/4$
Col A: x
Col B: y

9. If consider the line $3x - y < 1$, then in which quadrant the line lie?
A. First Quadrant
B. Second Quadrant
C. Third Quadrant
D. Fourth Quadrant
E. All

10. Given that a person travels in a circular path of diameter 2cm. If the total distance traveled by him is 31.4cm, then find the number of revolutions made by him?

Admin,
drrajusgre.com

1-->C
2-->D
3-->....
4-->B
5-->18
6-->B
7-->10
8-->D
9-->E
10-->50

if any of them r wrong plz..inform me

1. If $f(n) = [(-1)^n] * c * n$, where c is given as cost of some(xxx). If $f(1)$, $f(2)$ and $f(3)$ are the similar to the difference between the largest and smallest among $f(1)$, $f(2)$ and $f(3)$ is 20, where c is a positive integer.

Col A: $f(4)$

Col B: 16

Ans: C

2. Col A: $(2m+1)^2$

Col B: $(2m+2)^2$

Ans: D

3. Given the area of the rectangle as 20 and asked to find the perimeter?

Ans: D

4. Col A: $3^{(x^2+1)}$

Col B: $3^{(x^2+1)^2}$

Ans: B -- if 'x' is a positive integer, else it is 'D'.

5. If a number is divisible by 5 the remainder is 3 and when the same number is divided by 7 the remainder is 2. What is the least possible number?

Ans: 18

6. There are 'n' number of flags and the number 'n' is odd. If the first flag is red color and the even numbered flags are white, then what are the number of red color flags?

Col A: Number of red flags

Col B: $n/2$

Ans: A

7. If $0 < x < 10$ & $y = 2x + 3$ and y is an integer, then find the number of possible sets of (x, y) ?

Sol: For 'y' to be an integer, '2x' should be an integer (As $y = 2x + 3$).

Therefore possible values of '2x' to be an integer are 1, 2, 3, 4, 5, 6, 7, 8, 9, $1/2$, $3/2$, $5/2$, $7/2$, $9/2$, $15/2$, $17/2$ & $19/2$.

Ans: 19.

8. If $0.0625y = x \cdot (2.5)/4$

Col A: x

Col B: y

Ans: B

9. If consider the line $3x - y < 1$, then in which quadrant the line lie?

A. First Quadrant

B. Second Quadrant

C. Third Quadrant

D. Fourth Quadrant

E. All

Ans: E

10. Given that a person travels in a circular path of diameter 2cm. If the total distance traveled by him is 31.4 cm, then find the number of revolutions made by him?

Ans: 50

Admin,
drrajusgre.com

Quant:

1. If $\frac{3}{13} < x < \frac{4}{13}$, then the possible value of x is?

A. $\frac{9}{26}$

B. $\frac{17}{52}$

C. $\frac{19}{65}$

& so on....

2. If $b = \text{mod}(15x+20y)$, then

Col A: The smallest possible value of 'b'

Col B: 10

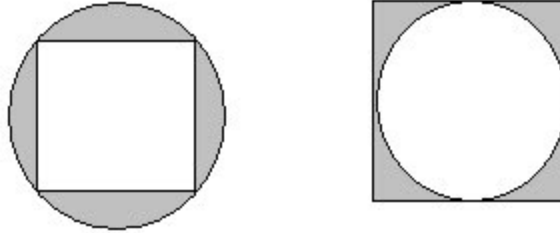
3. If $2.8! + 10! = x \cdot 8!$, then the value of x is?

4. If $x^2 + 2x + f = 0$ & $x^2 + 4x + g = 0$, then

Col A: f

Col B: g

5.



If the radius of the above two circles is 'r', then

Col A: Area of the shaded region of A

Col B: Area of the shaded region of B

6. Given a triangle inscribed in a circle with angles x , y & z . If $x = y$, then

Col A: x

Col B: z

7. Col A: $0.9999/0.9998$

Col B: $1.0002/1.0001$

8. If a box contains 10 machines, in which 3 are defective then find the probability that none are defective

9. Col A: $3^{(x^2 + 1)}$

Col B: $3^{(x^2 + 1)^2}$

10. Given $R1 = (-1, 0, 1)$, $R2 = (1, 1, 2)$ & $R3 = (-3, -2, -1, 0, 1, 2, 3)$ and $s1$, $s2$ & $s3$ are the standard deviation of $R1$, $R2$ & $R3$ respectively.

i. $s1 > s2$

ii. $s2 > 5$

iii. $s3 > 0$

A. None

B. I & II

C. II & III

& so on...

11. Col A: $\sqrt{2} * \sqrt{6} * \sqrt{21}$

Col B: 9

12. Col A: Median of days in February in a leap year.
Col B: Median of days in February in a non-leap year.

13. In an examination, number of marks was given like twice the number of correct questions minus number of incorrect questions. If a student gets 100 marks, then

Col A: Number of question he answered correctly
Col B: 50

14. If a man covers half of the distance in 9 hours at an average rate of 35mph and if he had to cover the whole distance in 'T' hours, then what is the rate in terms of 'T' for the next half distance?

Admin,
drrajusgre.com

Quant:

1. If $x > 1$ and $f(x) = 5/((3/1-x)-2)$, then

Col A: The value of 'x' at which f(x) is not defined

Col B: 2

2. Given a square ABCD within which another square EFGH is inserted such that 'E' lies on AB & 'F' lies on BC. If HD = 2, then

Col A: Perimeter of ABFH

Col B: Perimeter of square EFGH

3. If 'x' is a negative integer, then

Col A: $(4/3)^x$

Col B: $(3/4)^{-x}$

4. The following was stated in the form of table.

In experiment 'P' there are 10 samples in which the least value(of weights) is 105 & range is 10.
In experiment 'Q' there are 11 samples in which the least value(of weights) is 120 & range is 12.

Col A: The median of samples of "P+Q"

Col B: 120

5. If $a > 1$, then

Col A: a^2-1

Col B: $a+1$

6. How many four-digit odd numbers are there whose hundredth place is 6 and it is an odd number?

- A. 450
- B. 650
- C. 950
- D. 850
- E. 750

7. If $x/2 + x/5 = 1 - x/3$ and if $xy =$ some fraction, then

Col A: x

Col B: y

(something like this)

8. If $12 \leq a \leq 15$ and $a+b=5$, then find the value of $a-b$?

9. If $(x-1/x)/(1+1/x) = 99$, then find the value of $(x-1/x)/(1-1/x)$?

10. If 'W' is the width of the rectangle and 'R' is the area of the rectangle where $r > 0$, then

Col A: Perimeter of rectangle

Col B: $2W+2R/W$

11. If a, b & c are all positive integers numbers and if $a*b*c = 66$, then what is the value of $a+b+c$?

12. Given a figure of a triangle with vertices $(5, 0), (t, 0)$ and $(6, 4)$ & area was also given, asked to find the

13. Col A: $(7^4+7^5) + (8^6+8^7)$

Col B: $(7^4(8) + 8^6(9))$

14. A sales company, gives Rs.1800 plus 15 percent of the amount from sales to its salesman if his sales are x . If the salesman does a sales of Rs. x , where $x > 12000$ then

Col A: The Amount the sales man receives

Col B: $0.15x$

15. Col A: The remainder when $(10^{22})+1$ is divided by 11

Col B: 2

Admin,
drrajusgre.com

Quant:

1. If $x > 1$ and $f(x) = 5/((3/1-x)-2)$, then
Col A: The value of 'x' at which $f(x)$ is not defined
Col B: 2
Ans: B

2. Given a square ABCD within which another square EFGH is inserted such that 'E' lies on AB & 'F' lies on BC
HD = 2, then
Col A: Perimeter of ABFH
Col B: Perimeter of square EFGH
Ans: A

3. If 'x' is a negative integer, then
Col A: $(4/3)^x$
Col B: $(3/4)^{-x}$
Ans: C

4. The following was stated in the form of table.
In experiment 'P' there are 10 samples in which the least value(of weights) is 105 & range is 10.
In experiment 'Q' there are 11 samples in which the least value(of weights) is 120 & range is 12.
Col A: The median of samples of "P+Q"
Col B: 120
Ans: C

5. If $a > 1$, then
Col A: a^2-1
Col B: $a+1$
Ans: D

6. How many four-digit odd numbers are there whose hundredth place is 6 and it is an odd number?
A. 450
B. 650
C. 950
D. 850
E. 750
Ans: A

7. If $x/2 + x/5 = 1 - x/3$ and if $xy =$ some fraction, then
Col A: x
Col B: y
(something like this)

8. If $12 \leq a \leq 15$ and $a+b=5$, then find the value of $a-b$?
Ans: This is an optional based question.
To the given question, four different values are possible
i. $a = 12$ & $b = -7$, then $a-b = 19$
ii. $a = 13$ & $b = -8$, then $a-b = 21$
iii. $a = 14$ & $b = -9$, then $a-b = 23$
iv. $a = 15$ & $b = -10$, then $a-b = 25$

9. If $(x-1/x)/(1+1/x) = 99$, then find the value of $(x-1/x)/(1-1/x)$?

10. If 'W' is the width of the rectangle and 'R' is the area of the rectangle where $r > 0$, then

Col A: Perimeter of rectangle

Col B: $2W + 2R/W$

Ans: C

11. If a, b & c are all positive integers numbers and if $a*b*c = 66$, then what is the value of $a+b+c$?

Ans: If it is mentioned as 'prime numbers' in the question, then possible solution for the question is $a = 2$,

So $a+b+c = 16$.

Else you get 3 more possible sets

$a = 1, b = 6 \text{ \& } c = 11$; Ans = 18

$a = 1, b = 22 \text{ \& } c = 3$; Ans = 26

$a = 1, b = 33 \text{ \& } c = 2$; Ans = 36

12. Given a figure of a triangle with vertices (5, 0), (t, 0) and (6, 4) & area was also given, asked to find the

13. Col A: $(7^4 + 7^5) + (8^6 + 8^7)$

Col B: $(7^4(8) + 8^6(9))$

Ans: C

14. A sales company, gives Rs.1800 plus 15 percent of the amount from sales to its salesman if his sales are

If the salesman does a sales of Rs.x, where $x > 12000$ then

Col A: The Amount the sales man receives

Col B: $0.15x$

Ans: A

15. Col A: The remainder when $(10^{22})+1$ is divided by 11

Col B: 2

Ans: C

14->C ?

$x = 22,000$

then colA : $1800 + 1500 = 3300$

colB : $0.15 * 22000 = 3300$

Quant:

1. Given a series of numbers $(-0.5)^{-2}, (-0.5)^{-1}, (-0.5)^0, (-0.5)^1, (-0.5)^2$, find the range of the series

2. If $x^2 = y$, then

Col A: $5x/y$

Col B: x^2

3. Given  a square inscribed in a circle, then

Col A: The radius of the circle

Col B: The side of the square

**4. If $g(x) = |x|$ for $x < 1$ &
 $g(x) = |x-1|$ for $x > 1$, then
find the value of $g(-2)-g(2)$?**

5. Given a line passes through $(-1, -1)$, $(100, 101)$ & $(x, 3)$, find the value of 'x'?

6. There are 10 numbers in a sequence the starting number is 5, the rest are obtained by doubling the previous number and subtracting 3, then what is the 4th number?

7. The approximate value of $61.19(0.98)^2/\sqrt{401}$ is?

8. Given two points $(-1, 3)$ and $(4, 4)$. Find the slope of it?

**9. Given three values as $d_1 = 2$, $d_2 = 3$ and $d_3 = 4$, then
Col A: -2
Col B: $d_1(d_2 - d_1 \cdot d_3)$**

**10. If $0.0625y = x \cdot (2.5)/4$
Col A: x
Col B: y**

**11. A right triangle was drawn and a square was drawn by considering each side of triangle as its side.
Col A: The area of the square formed with hypotenuse as side
Col B: The sum of two other squares**

**12. Given $b = \text{mod}(15x + 20y)$, where x and y are integers. If x, y are not equal to 0, then
Col A: The smallest positive value of b
Col B: 5**

13. If $k/m = m/r = 4/5$ & if $k = 6$, then what is the value of r?

**14. Col A: 10^{30}
Col B: 0.001^{-10}**

Admin,
drrajusgre.com

**1-->3.75
2-->d
3-->a
4-->1
5-->3
6-->231358
7-->3.05**

8-->.2
9-->-1
10->d
11->c
12->c
13->9.375
14->c

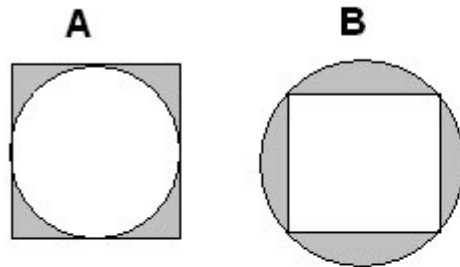
Quant:

1.If a person moves towards west in straight line for 6m and then to north for another 16m and then to west another 10m, then

Col A: The distance between starting and ending point

Col B: 16×1.414

2.



If the radius of the above two circles is 'r', then

Col A: Area of the shaded region of A

Col B: Area of the shaded region of B

3.If the Standard deviation of x, y & z is 'd', then

Col A: Standard Deviation of $x+1$, $y+1$ & $z+1$

Col B: $d+1$

4. Given a square ABCD within which another square EFGH is inserted such that 'E' lies on AB & 'F' lies on BC, then

Col A: Perimeter of ABFH

Col B: Perimeter of square EFGH

5. Col A: 10^{30}

Col B: 0.001^{-10}

6. Find the quadrant in which $3x - y < 1$ lies?

A. First Quadrant

B. Second Quadrant

C. Third Quadrant

D. Fourth Quadrant

E. All

7. If $\frac{3}{13} < x < \frac{4}{13}$, then which of the following could be a possible value of x?

A. $\frac{9}{26}$

B. $\frac{14}{39}$

C. $\frac{17}{52}$

D. $\frac{19}{65}$

& so on....

Admin,
drrajusgre.com

1-->C

2-->A

3-->B

4-->A

5-->C

6-->E

7-->D

4q.

ABCD IS A SQUARE AH+HD=AD

AH=3, HD=2. SO, AD=5 IS SIDE OF EXTERNAL SQUARE

INTERNAL SQUARE DIAGONAL LENGTH IS 5. SO ITS SIDE IS $\frac{5}{\sqrt{2}}$

A.....PERIMETER OF ABFH IS $3+5+3+5=16$.

B.....PERIMETER OF EFGH = $4 * (\frac{5}{\sqrt{2}}) = 10 * 1.414 = 14.14$

SO ANS..... A

Quant:

1. If a person moves towards west in straight line for 6m and then to north for another 16m and then to west

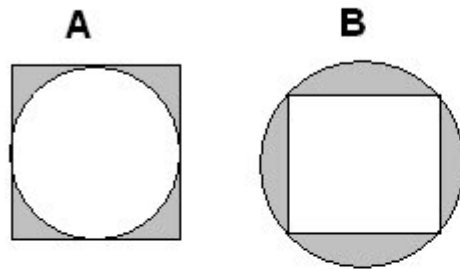
another 10m, then

Col A: The distance between starting and ending point

Col B: 16×1.414

Ans: C

2.



If the radius of the above two circles is 'r', then

Col A: Area of the shaded region of A

Col B: Area of the shaded region of B

Ans: A

3.If the Standard deviation of x, y & z is 'd', then

Col A: Standard Deviation of $x+1$, $y+1$ & $z+1$

Col B: $d+1$

Ans: B

4.Given a square ABCD within which another square EFGH is inserted such that 'E' lies on AB & 'F' lies on BC, then

Col A: Perimeter of ABFH

Col B: Perimeter of square EFGH

Ans: A

5.Col A: 10^{30}

Col B: $0.001^{(-10)}$

Ans: C

6. Find the quadrant in which $3x - y < 1$ lies?

- A. First Quadrant
- B. Second Quadrant
- C. Third Quadrant
- D. Forth Quadrant
- E. All

Ans: E

7.If $\frac{3}{13} < x < \frac{4}{13}$, then which of the following could be a possible value of x?

- A. $\frac{9}{26}$
- B. $\frac{14}{39}$
- C. $\frac{17}{52}$
- D. $\frac{19}{65}$
- & so on....

Ans: D

Quant:

1. There is a square with side 10m. On top of the square there is one semicircle with its diameter on one side (diameter length = side length). One point on the semicircle is chosen and a perpendicular is drawn on to the side of the square. This perpendicular divides the side of the square in 8:2. Find the length of the perpendicular?

2. Given $N = v * w * x * y * z - (v + w + x + y + z)$. If 'N' is an even integer, then how many of v, w, x, y, z will need to be odd numbers?

3. If $|x| \leq 6$; $|y| \leq 4$, then find the greatest possible value of $|x/y|$?

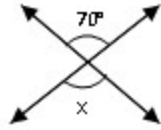
4. The probability of raining tomorrow is 0.49.

Col A: The probability that it will rain tomorrow and George eats the food

Col B: 0.54

5. Given equation of the circle as $x^2 + y^2 = 49$. If two points (0, b) and (4, a) lie on the circle, then what is the value of a/b?

6.

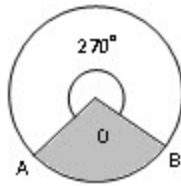


Col A: $\frac{1}{2}$ (Remaining angles)

Col B: 55°

7. If twice the average of x , y and z , when divided by 7 gives remainder 1, then what is the remainder, when $x + y + z$ is divided by 7?

8.



Given the area of the circle as 16π , asked to find the perimeter of shaded region OAB?

9. Given arithmetic mean of p, q, r as 10. If arithmetic mean of p, q, r, x is 15, then

Col A: $x/2$

Col B: 15

(Similar to this)

Quant:

1. If m and n are positive integers, then

Col A: $(5^m/5^n)^2$

Col B: $(m/n)^2$

2. The greatest prime factor of 123×255 ?

A. 3

B. 7

C. 17

D. 41

& so on...

3. What is the multiplication of 67th and 68th term in the series 3, 4, 2, 1, 3, 4, 2, 1, 3, 4.....?

4. If $|2k + 7| \geq 9$, then

Col A: k

Col B: 1

5. If $0 < x < 5^{-6}$

Col A: x

Col B: $(25)^{-2}$

6. Given sides of a right angled triangle as n , $2n-1$ and $2n+1$, where ' n ' is a positive integer. What is the value of the hypotenuse?

A. 13

B. 15

C. 17

& so on.....

(similar to this)

the answers r

1. D

2.D

3. 2

4.D

5.B

6.C

Quant:

1. Given a series 3, 1, 4, 2, 3, 1, 4, 2..... What is the product of 67th and 68th term?

A. 2

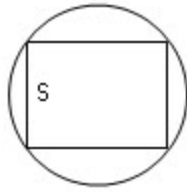
B.3

C. 4

D. 6

E. 8

2.



If the diameter of the circle is 10cm, then

Col A: Area of the square

Col B: $41/2$

3. A number 'n' when divided by 7 gives remainder 3. What is the number which is divisible by 49 without terms of 'n'?

A. $[(n + 1)]^2$

B. $[(n + 3)]^2$

C. $[(n - 3)]^2$

& so on.....

4. Col A: $\sqrt{(r^6)}$

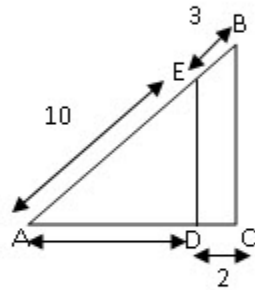
Col B: r^3

5. If $|j + 2| < 5$ and $|[(k - 1)]^2| < 25$, then

Col A: jk

Col B: 15

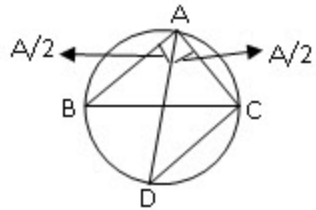
6.



What is the value of AD ?

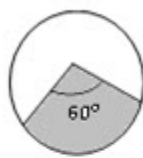
7. Given the average of set of three numbers x, y, z as 30. If a number 10 is included in the set, then what four numbers?

8.

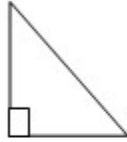


Find the angle BCD?

1.Col A: Area of the shaded region



Col B: Area of the triangle



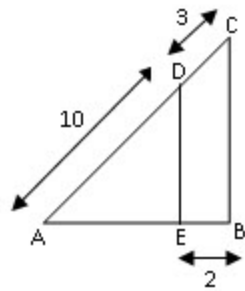
2. Given two numbers 'x' and 'y'. If tens place of 'x' is 7 and tens place of 'y' is 6, then find the value in the product?

**3. Given that, there are 3 cuboids S, R and T.
For the cuboid 'R', the sides are $z > y > x > 0$
For the cuboid 'S', the sides are $x + 10, y, z$
For the cuboid 'T', the sides are $x, y, z + 10$. Then,
Col A: Difference in the Volumes of S and R
Col B: Difference in the Volumes of T and R**

**4. If $|2x + 3| = 5$, then
Col A: x
Col B: 2**

5. There are 4 houses and each is painted with plain color. If there are 3 colors, then in how many ways can be painted?

6.



What is the length of AE ?

7. There are 37 employees in a company X. If the month of July has more number of birthdays than any other month, then

Col A: Number of Birthdays in July

Col B: 3

8.



Given A, B, C and D as four consecutive numbers, if AD: AB = 9: 1 and AD: AC = 4:1, then what is the value of A, B, C and D?

A. -20, -16, -11, 16

B. -24, -20, 16, 36

C. -24, -4, 16, 36

& so on.....

9. In a year of 365 days.

Col A: Mean number of days in the month

Col B: Number of days in the median month

10. Given the coordinate system with 6 points in Quadrant I. The equation of a line is given with slope $-1/3$ question asked is, which of the following points (given in the options) satisfies the given line equation? (Something similar to this)

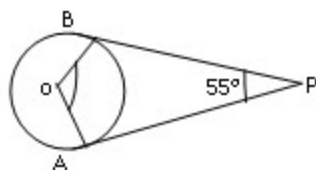
11. Given equation of the line as $2x + 3y = 7$.

Col A: x-intercept

Col B: y-intercept

12. Given five numbers x_1, x_2, x_3, x_4, x_5 and the probability of their occurrence are P_1, P_2, P_3, P_4, P_5 . The is $x_1 P_1 + x_2 P_2 + x_3 P_3 + x_4 P_4 + x_5 P_5$. If the probability of occurrence of x is $x/10$, then find the proba occurrence, if the numbers are 1, 2, 3, 4, and 5? (Similar to this)

13.



Find the value of angle BOA?

14. In bag 1, the ratio of green balls to blue balls is $\frac{3}{4}$. In bag 2, the ratio of blue balls to red balls is $\frac{3}{5}$. both the bags are mixed and put in another bag, then find the ratio of blue balls to total number of balls in

15. If $-6 < w < -1$;

$1 < x < 4$;

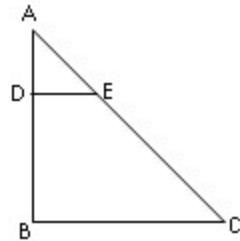
$-4 < y < -1$;

and $1 < z < 6$, then

Col A: wx

Col B: yz

16.



If the ratio of $AB:AD = 3:1$, then what is the ratio of area of the triangle ABC to ADE?

Let us just post in the answers that we know i see that the number of views for the quant questions post is way high replies!

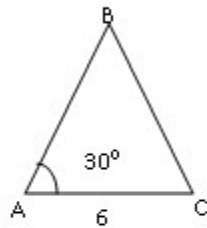
lets just help each other out! im posting mine, please do let me know if i am wrong!

- 1- D
- 2- ?
- 3- A
- 4- B
- 5- 81
- 6- $20/3$
- 7- A
- 8- ?
- 9- B
- 10- ---
- 11- A
- 12- ?
- 13- 125
- 14- $7/15$
- 15- D
- 16- 9:1

1. Given, area of a circle 'P' as 36π and area of a circle Q as 18π . Find the ratio of their radius?

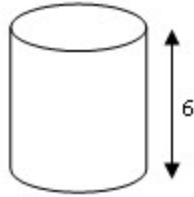
2. By weight liquid 'A' makes up 7% of solution-I and 14.5% of solution-II. If 3 grams of solution-I is mixed with 7 grams of solution-II, then liquid 'A' accounts for what percentage of weight of resulting solution?

3. If the sum of 'n' different positive integers is less than 100, then what is the greatest possible value of n
- 4.



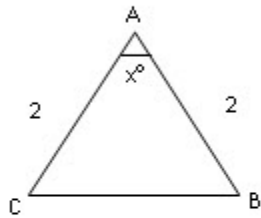
Col A: AB
Col B: BC

5. There is a series of 9 numbers and the second number is 6 more than first number. If 7th number is 42, 3rd number?
- A. 18
B. 24
C. 30
D. 36
& so on.....
6. If the standard deviation of $w + 6$, $x + 6$, $y + 6$ is 'd', then
Col A: Standard Deviation of w , x , y
Col B: d
7. Given that a boy covers 'm'km in 't'sec, then in how many minutes he can cover 'p'km?
- 8.



As shown above, height of the cylinder is 6. If the area of the cylinder is 54π , then find the base circumference.

9.



If $90^\circ < x < 180^\circ$, then what is the range of third side?

A. 1 – 5

B. 0 – 4

C.2 – 6
& so on.....

10. Given mode of a set as 70.

Col A: Mean of the set

Col B: 70

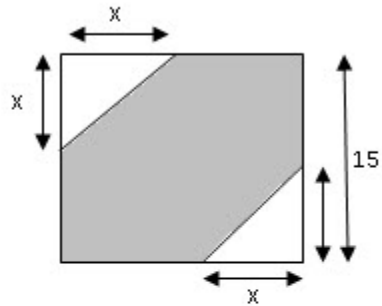
11. Given a number 39.7568. What is the value of the number, if it is rounded to nearest thousandth place?
(Similar to this)

12. If $x > 0$, then

Col A: $x^{50} + x^{51} + x^{52}$

Col B: 3

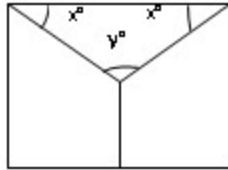
13.



If the area of the shaded region is 75% of the total area of the square, then what is the value of x ?

Quant:

1.



Col A: x

Col B: y

2. There are 8 members in a party. If each member exchanged shake hand with one another, then how many hands one can see in the party?

3. Given ' x ' is an integer and y, z are two consecutive integers. Which of the following results an odd number?

A. xy

B. $xy + z$

C. $(y + z)/2$

D. $[(y + z)]^{2/4}$

& so on...

4. If a number is between -3 and 7, then which of the following gives the range of the number?

A. $|x - 1| > 2$

B. $|x + 1| > 7$

C. $|x + 2| > 2$

D. $|x - 2| > 7$

& so on....

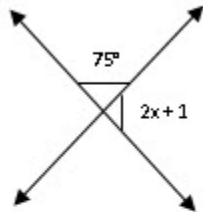
5. In a three-digit number, if the hundreds digit is twice the tens digit and tens digit is twice the units digit, how many such numbers can be formed?

6. There is a set of five numbers. If the average of last two numbers is 20, median is 7 and the mode is 4, then what is the average of the numbers?

7. Given there are 20 points in a plane, find the number of diagonals formed from that?
(Similar to this)

8. Given two two-digit numbers 'x' and 'y'. If tens place of 'x' is 7 and 'y' is 8, then
 Col A: Sum of ten's place of x and y
 Col B: 8

9.



What is the value of x?

& few previous database questions

1. Given that in a bag of toys, if 1/2 are small **toys** and 1/4 are red

Col A: Number of toys which are red and small

Col B: 1/8

2. The GNP of a country in February is 10% less than that of it in January and in March if it is 12% greater February, then how many times is March GNP that of January GNP?

3.Col A: The **number** of real roots of the equation $2x^2 + 3/4 = 0$

Col B: The number of real roots of equation $2x + 3/4 = 0$

4. Given 'x' as two digit number and multiplication of 3 to 'x' i.e. 3x has 9 in its units place.

Col A: 3x

Col B: 69

5. What is the value of $((0.122)(0.9312)(0.44))/((0.233)(0.369)(0.211))$?

A. 0.3

B. 0.8
C. 0.9
& so on.....

6. Given $f(n+3) = f(n)$. If $f(-1) = 6$, $f(0) = 5$ and $f(1) = 4$, then find the value of $f(8)$?

7. If the distance from a point on x-axis to **a point** on coordinate axis $(4, 8)$ is $4\sqrt{5}$, then find the x-coordinate of the point?

8. If the volume of a cylinder of radius 'r' and height 'h' is 'V', then what is **the volume** of the radius '2r' and height '2h'?

A. V
B. 2V
C. 4V
D. 8V
& so on.....

9. If the area of a circle with radius r_1 is $4n$ and area of circle with radius r_2 is $64n$, then find the ratio of

10. If $0 < 2y < |x|$; x is a negative integer, then which of the following is also **a negative** integer?
A. $x^2 - 4y^2$
B. $4y^2 - x$
C. $x - 4y^2$
& so on.....

11. If $[10]^u = [100]^v$, then

Col A: u
Col B: 2v

12. A discount of \$25 is given to \$75 merchandise after a **tax** of 10 % was added. Further an additional tax added due to some reason XXX. If a person X wants to buy 300\$ merchandise, then how much he will have to pay if tax of 5% is not included?

13. If $|2x-3| < 7$, then

Col A: x
Col B: -3

14. Given $f(x) = 2x + 5$. If $y = f(x+2)$, then what is the slope of y?

A. $-1/3$
B. $1/4$
& so on.....

15. If 'x' is an integer, then which of the following must be true?

A. x^2 is an even number
B. $(2x+3)$ is an odd number
& so on...

[quote="dr.rajus faculty"]

1. Given that **in a bag** of toys, if $1/2$ are small toys and $1/4$ are red toys

Col A: Number of toys which are red and small

Col B: $1/8$

ANSWER: $P(A \cup B) = P(A) + P(B) - P(A)P(B)$

so, answer is A..

2. The GNP of a country in February is 10% less than that of it in January and in March if it is 12% greater than that of January GNP?

how many times is March GNP that of January GNP?

Answer: 2%

3. Col A: The number of real roots of the equation $2x^2 + 3/4 = 0$

Col B: The number of real roots of equation $2x + 3/4 = 0$

Answer: B

4. Given 'x' as two digit number and multiplication of 3 to 'x' i.e. $3x$ has 9 in its units place.

Col A: $3x$

Col B: 69

Answer: D

5. What is the value of $((0.122)(0.9312)(0.44))/((0.233)(0.369)(0.211))$?

A. 0.3

B. 0.8

C. 0.9

& so on.....

6. Given $f(n+3) = f(n)$. If $f(-1) = 6$, $f(0) = 5$ and $f(1) = 4$, then find the value of $f(8)$?

Answer: 6

7. If the distance from a point on x-axis to a point on coordinate axis $(4, 8)$ is $4\sqrt{5}$, then find the x-coordinate of the point?

Answer: 0 or 8

8. If the volume of a cylinder of radius 'r' and height 'h' is 'V', then what is the volume of a cylinder of radius '2r' and height '2h'?

A. V

B. 2V

C. 4V

D. 8V

& so on.....

Answer: D

9. If the area of a circle with radius r_1 is $4n$ and area of circle with radius r_2 is $64n$, then find the ratio of r_1/r_2 ?

Answer: $1/4$

10. If $0 < 2y < |x|$; x is a negative integer, then which of the following is also a negative integer?

A. $x^2 - 4y^2$

B. $4y^2 - x$

C. $x - 4y^2$

& so on.....

Answer: C

11. If $\llbracket 10 \rrbracket^u = \llbracket 100 \rrbracket^v$, then

Col A: u

Col B: 2v

Answer: C

12. A discount of \$25 is given to \$75 merchandise after a tax of 10 % was added. Further an additional tax of 5% was reason XXX. If a person X wants to buy 300\$ merchandise, then how much he will have to pay, if extra tax of 5% is no
Answer: 220

13. If $|2x-3| < 7$, then

Col A: x

Col B: -3

Ans: A

14. Given $f(x) = 2x + 5$. If $y = f(x+2)$, then what is the slope of y?

A. $-1/3$

B. $1/4$

& so on.....

Ans: 2

15. If 'x' is an integer, then which of the following must be true?

A. x^2 is an even number

B. $(2x+3)$ is an odd number

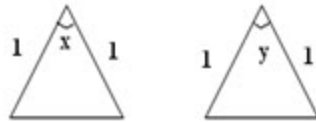
Ans: B

venkatareddy

Quant:

1. A square is inscribed in a circle. If the side of square is 's', then find area of the circle in terms of s?

2.



If $x < y$, then

Col A: Area of triangle with angle x

Col B: Area of triangle with angle y

3. There are five numbers in a set and median is 32 and 35 occurs twice and no other numbers in the set and average of five numbers is 30, then what is the least possible value of the set?

4. If

/ A B

+ B A

C D C

Col A: D

Col B: 2

5. If $su = w + sv$ and $s=2$ and if $2(v - u) = 3$, then

Col A: w

Col B: 3

6. Given two line equations $3x-5y = 18$ and $2x+10y = -3$ and if these two lines intersect at a point, then find the intersection?

A. x-axis

B. y-axis

C. Quadrant-I

D. Quadrant-II

E. Quadrant-IV

7. Given an Isosceles triangle with two angles denoted as ' t ' and ' n '. If the arithmetic mean of two angles is 65, then what is the value of ' n '?

A. 60

B. 65

- C. 70
- D. 75
- E. 80

8. A number when divided by 7 leaves remainder 3 then which of the following is exactly divisible by 49?

- A. $n^2 - 2$
- B. $n^2 - 3$
- C. $(n-2)^2$

D. $[(n-3)]^2$

E. $(n-4)^2$

9. A train can complete a trip of 'd' miles in 'h' hours. Find the average speed in miles/hrs, if on the next day it completes the trip 30 min faster than the previous day?

10. Given the speed of light year = $3 \times [10]^8$ mts/sec and if it is rounded to $[10]^8$, then

Col A: Speed of light year in kilometer/hr

Col B: $[10]^{10}$

11. If $x - \frac{x}{2} - \frac{x}{4} - \frac{x}{8} = 2$, then what is the value of x?

12. There are 54 members in a company and Wednesday has more number of birthdays of employees than any weekday, then what is the minimum number of birthdays on Wednesday?

13. The principle amount is given as 4000\$. It is invested at some rate of interest and if the amount received is 200\$ at a simple annual interest, then find the rate of interest?
(Similar to this)

- 1. $2\pi s^2$
- 2. Col B
- 3. 17
- 4.
- 5. Col B
- 6. E
- 7. B
- 8. D
- 9. $\frac{d(2h-0.5)}{2h(h-0.5)}$
- 10. Col B
- 11. 16
- 12. 9
- 13. 5%

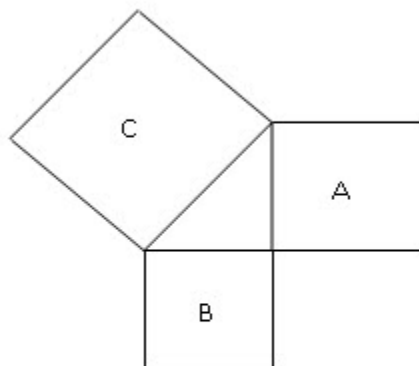
Quant:

1. If 22 miles requires 1 gallon of fuel costing \$1.1, then what is the cost to travel 'x' miles?

- A. $0.05x$
- B. $1.0x$

**C.1.2x
& so on.....
(something similar to this)**

2.

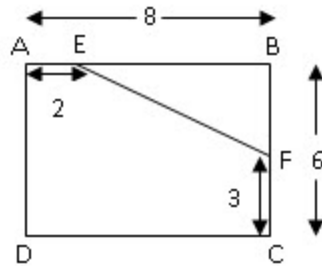


**Col A: Sum of Area of the square A and Area of square B
Col B: Area of square C**

3. Given a set of numbers 6, 8, 12, 14, x. For what value of x, will the standard deviation be minimum?

- A.0**
- B.10**
- C.20**
- D.28**
- E.32**

4.



Find the area of AEFCD?

5. If $h^2 = 4$, then

Col A: h

Col B: 0

6. If a person's weekly salary is \$350. If 16% of his annual volume is from his tips and if he gets \$700 annual of tips, then what is his annual income?

(Similar to this)

7. Given a line equation $3x - 2y = 34$. What is the equation of the line perpendicular to the given line and passing through $(0, 0)$?

Admin,
drrajusgre.com

sir plz chck the solutions and repost the corrcct answers ..
tnx in advnce

1. $0.05x$

2. C

3. 10

4. 42

5. D

6.18,900..may b i dono..

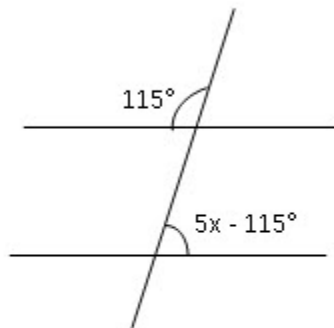
$$7.2x+y=0$$

Quant:

1. Col A: $v/W/S$

Col B: VS/W

2.



What is the value of x ?

**3. What is the value of $(0.048 \times 1.34)/0.0025$?
(Options given in the form of decimal values)**

4. If standard deviation of set of numbers x_1, x_2, x_3 is 'S', then what is the [standard deviation](#) when each number is multiplied by a constant number?

- A. Standard Deviation doubles**
- B. Standard Deviation reduces by half**
- C. Standard Deviation remains same**
- D. Standard Deviation multiplied by given constant number**

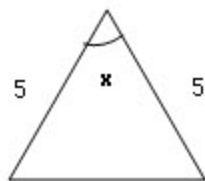
& so on.....

(Question is similar to this)

5. Col A: Volume of the cylinder of radius 3m and height 4m

Col B: Volume of the cylinder of radius 4m and height 3m

6.



Col A: x
Col B: 60°

7. If a person travels from 'S' to 't' of 240km in 4hrs and then from 't' to 'r' of 480km, find the average speed.

Admin,
drrajusgre.com

sir plz check the solutions and respond immediately..

1.C

2.36

3.apprx 27.0

4.d

5.b

6.60 degrees

7.?????? didnt giv the avrg speed of secnd journey t to r

Quant:

1. There are 90 cows which are either white or brown or a combination of white and brown. If 55 of them are white, how many are brown?

partially white and 75 are brown or partially brown, then how many of them are of mixed colors?

2. If $a * b = ab + 5$, then which is greater?

Col A: $-1*(2*3)$

Col B: $(-1*2)*3$

3. If the perimeter of a fence is 12 sq.cms, then

Col A: Area of the fence, if it is of square shape

Col B: Area of the fence, if it is of circular shape

4. Col A: $|a+8|$

Col B: $|a|+7$

5. Given the mean of 18 numbers as 'm' and standard Deviation as 's'. If two numbers among equal to m, then

Col A: Standard Deviation of rest 16 numbers

Col B: s

6. The value of $1/(1/9 + 1/9 + 1/9)$ is?

7. If $x(n-1) - xn = n + 1$, for $n = 1$ to 5 and if $x_4=15$, then what is the value of x_5 ?

8. If $(n \# a) = ((n!))/([(a!)(n-a)!])$, then

Col A: $(16 \# 4)$

Col B $(16 \# 3)$

9. If Perimeter of a square is $2+2\sqrt{2}$, then what is its area?

sir plz chck these solutions and reply immediatly,,n post correct answers

1.40

2.c

3.b

4.d

5.a

6.3

7.27

8.a

9. $(3.2\text{root}2)/4$

Quant:

1. What is the value of $((51! - 50!))/((50! - 49!))$?

2. In a survey, if atleast 40% had 1 dog, atleast 40% had 1 cat and 30% had none, then what is the ratio of those who have one cat and one dog to those who have one dog?

3. How many even integers have squares between 37 and 621?

4. Given a list of 12 numbers which are positive and even. If their sum is 50, then

Col A: Range of the twelve numbers list

Col B: 20

5. In $n > 10000$, then

Col A: Thousand's digit of $n/8$

Col B: 7

6. In a distribution of 8500 parameters, if 26.7 is 56 percentile and 37.1 is 78 percentile, then what is the probability that $(26.7 \leq x \leq 37)$, that is closest in this range?

A. 1888

B. 4750

C. 6650

& so on....

7. Given $2 < a < 4 < b < 10$. If the average of 3, 6, 9, a, b is 6, then

Col A: $a - b$

Col B: 4

8. Given 'N' as a positive integer, such that when it is multiplied with $3/5$ and resultant is divided with $7/1$, which of the following option?

A. $N \times (6/7)$

B. $N/(5/2)$

& so on...

9. Given two circles that are concentric having radii 2 and 5. If the tangent to the smaller circle intersects the larger circle at 'S' and 'T', then what is the length of 'ST'?

10. If slope of a line L1 is -2 and L2 is $1/2$, then what is the angle between the lines?

11. If $0 < a < b < c$, then

Col A: b/a

Col B: c/b

12. Given a triangle with three sides $a = 4$, $b = 3$ and $c = 6$

Col A: Angle between the sides a and b

Col B: 90

13. If the sides of a parallelogram are 16 and 10, then

Col A: The area of parallelogram

Col B: 155

14. If probability of receiving a busy tone is $1/3$, then

Col A: The probability of not receiving a busy tone, when tried 4 times

Col B: $1/4$

16. The value of $(5 \times 4) + 2(5 - 8 + 3)$ is

17. Col A: $\{(-36)\}^{49}$

Col B: $[36]^{(-49)}$

18. If $x > 0$, then

Col A: $2^2 \times \sqrt{x}$

Col B: $4^2 \times \sqrt{(x^2)}$

19. If $t^2 = -3(2t + 3)$, then find the value of t ?

19. Category Number of students

Elementary school 5

Junior school 4

High school 17

College 9

If total number of students is 35, then

Col A: Probability that a student chosen randomly will not cross junior school

Col B: probability that a student chosen randomly is from college

20. Given slope of a line as 2.5 and point on the line as (30, 50).

Col A: y-intercept

Col B: xxx (some value)

21. If $x \neq 1$, then

Col A: $1/(2x+2)$

Col B: $2x+2$

22. Given a square of side 5 and centre C. If it is rotated by 45° in clockwise direction about a corner with centre is C^* , then

Col A: CC^*

Col B: $5/\sqrt{2}$

23. Given two isosceles triangles A and B having two equal sides as '1' and angle between these equal sides as 'x' for triangle A and 'y' for triangle B. If $x > y$,

Col A: Area of triangle A

Col B: Area of triangle B

24. Given a circle with a point inside it, such that its maximum distance from the circumference is 11 and its minimum distance from circumference is 5. Find the radius of the circle?

25. If 'x' is an integer and $x \neq 1$, then

Col A: Standard Deviation of $\{1, 2, x\}$

Col B: Standard Deviation of $\{1, 2, 1\}$

26. Col A: Standard Deviation of 12, 10, 30, 35, 40

Col B: Standard Deviation of 30, 50, 20, 10, 60

Admin,
drrajusgre.com

solutions to my knowledge

1. 50

2.????

3. i think 8 10 12 14 16 18 20 22 24 are the even integers ..so 8 integers

5 D..... n can be any value greater than 10000 so may be 10 crores or 100 crores ..so may be $b > 7$

7. B $a=3$ $b=9$

9... $2\sqrt{29}$

10. 90..perpendicular lines

11. D

12. A

14 B value is $(\frac{2}{3})^4$..so approx 0.2. but $\frac{1}{4}$ is 0.25

16. ???????

17. B... a is always -ve and b is always +ve but < 1

18. D ..if $x > 1$ $B > A$..if $x < 1$ $A > B$

19.. $-3n - 3$

20??? i didn't understand quest..(will not cross) .???

22. D

23. B

24. C

25. 8

26. A

Quant:

1. There are 90 cows which are either white or brown or a combination of white and brown. If 55 of them are partially white and 75 are brown or partially brown, then how many of them are completely white?

2. Given an isosceles right angled triangle of perimeter $2+2\sqrt{2}$. Find its area?

3. Given volume of two cubes 'A' and 'B' as 1728 cubic.mts and 13824 cubic.mts

Col A: The ratio of their surface area

Col B: $\frac{1}{2}$

(Similar to this)

4. Given the mean of 18 numbers as 'm' and standard Deviation as 's'. If two numbers among 18 numbers then

Col A: Standard Deviation of rest 16 numbers

Col B: s

5. The value of $1/(1/9 + 1/9 + 1/9)$ is?

6. On a sales of \$250,000, if a person gets a commission of \$6000 which is 5% of profit, then what are his commission is 3% of profit?

Quant:

1. Given two concentric circles, one inscribed in another. If the radius of the inner circle is 'x' & the radius is '(x+y)', then what is the probability that the point taken lie in the inner circle?

- A. $\pi x^2/(x+y)$
 - B. $x^2/(x+y)^2$
 - C. $x^2/(x^2+y^2)$
 - D. $x/(x+y)$
- & so on....

Ans: B

2. Given price of a article as 'p' and is increased by r% to give a new price 'q' and then price of 'q' is reduced to original price.

Col A: r

Col B: s

Ans: A

3. If a, b and x are positive integers & if $a/b > 1$, then

Col A: $a+x/b+x$

Col B: a/b

Ans: B

4. If the range of 6 consecutive positive numbers is 6.8 and of 7 consecutive numbers is 13.2. If none of the two groups are same, then find the range of the 13 numbers?

Ans: Cannot be determined

5. If $-6 \leq x \leq 4$ & $-10 \leq y \leq 4$, then what is the greatest possible value of $-x^2 + y^4$?

Ans: 10,000

6. When a number is divided by 12, the remainder is 5. What is the remainder when the square of that number is divided by 8?

Ans: 1

7. Given a triangle with sides x, y & z. If $z = 1/4(\text{perimeter of triangle})$ and $x + y = 12$, then find the value of z.

Ans: 4

Soln to Q5 -----

given: $-6 \leq x \leq 4$ & $-10 \leq y \leq 4$

$-(x^2) + y^4$

the negative values of x and y don't play a role, the magnitude matters as we are squaring x and y is being raised to the power of 4.
so max value of $y^4 = (-10)^4$.

and we have to minimise the x^2 so that we can have the maximum value of the complete expression $-(x^2) + y^4$

and as a possible value of x is 0, we consider x to be 0 and the expression $= y^4 - 0 = y^4 = 10000$

Q 6 ----- does it have a simpler and fast way of solving or should I plug in values like 17, 29 for the number ?

Quant:

1. Given two concentric circles, one inscribed in another. If the radius of the inner circle is ' x ' & the radius of the outer circle is ' $(x+y)$ ', then what is the probability that the point taken lies in the inner circle?

- A. $\pi x^2 / (x+y)^2$
 - B. $x^2 / (x+y)^2$
 - C. $x^2 / (x^2 + y^2)$
 - D. $x / (x+y)$
- & so on....

2. Given price of an article as ' p ' and it is increased by $r\%$ to give a new price ' q ' and then price of ' q ' is reduced by $s\%$ to give the original price.

Col A: r

Col B: s

3. If a , b and x are positive integers & if $a/b > 1$, then

Col A: $a+x/b+x$

Col B: a/b

4. If the range of 6 consecutive positive numbers is 6.8 and of 7 consecutive numbers is 13.2. If none of the two groups are same, then find the range of the 13 numbers?

5. If $-6 \leq x \leq 4$ & $-10 \leq y \leq 4$, then what is the greatest possible value of $-x^2 + y^4$?

6. When a number is divided by 12, the remainder is 5. What is the remainder when the square of that number is divided by 8?

7. Given a triangle with sides x , y & z . If $z = \frac{1}{4}(\text{perimeter of triangle})$ and $x + y = 12$, then find the value of z .

Admin,
drrajusgre.com

- 1-->B
- 2-->A
- 3-->D
- 4-->????

5--> 6^2+10^4

6-->??

7-->4

pLZZZ Correct me if any body found mistakes.....

1. B

2. A

3. B

4. Cannot be determined

5. 10,000

6. 1

7. 4

Admin,
drrajusgre.com

- 1. Given area of a circle as 72sq.m. If sector angle of the circle is 135 degree, then what percentage of the circle is covered by sector area?**

Ans: 62.5%

- 2. Given $10 < 2x < 16$ and $10 < x+4 < 15$**

Col A: x

Col B: 7

Ans: C

- 3. Given a triangle ABC. A point 'D' divides the side AB such that a triangle ADC is formed and AD/DB = 1/3. If the area of the triangle ABC is 'r', then find the area of the triangle ADC in terms of 'r'?**

Ans: $r/4$

- 4. Given a cylinder C1 having volume 'V'. If another cylinder C2 is given, that has both radius and height double of cylinder C1, then what is the volume of second cylinder in terms of 'V'?**

Ans: 8V

- 5. If $0 < x < y < z$, then**

Col A: Mean of x, y, z

Col B: Median of x, y, z

Ans: D

- 6. If P1, P2 pipes together can fill a tank in 8 hrs and P3 pipe can fill in 12 hrs, then how much time will P1, P2 and P3 together take to fill the tank?**

Ans: 4.8hrs

Admin,
drrajusgre.com

Quant:

1. Given area of a circle as 72sq.m. If sector angle of the circle is 135 degree, then what percentage of area covered by sector area?

2. Given $10 < 2x < 16$ and $10 < x+4 < 15$

Col A: x

Col B: 7

3. Given a triangle ABC. A point 'D' divides the side AB such that a triangle ADC is formed and $AD/DB=1/3$. If the area of triangle ABC is 'r', then find the area of the triangle ADC in terms of 'r'?

4. Given a cylinder C1 having volume 'V'. If another cylinder C2 is given, that has both radius and height twice that of cylinder C1, then what is the volume of second cylinder in terms of 'V'?

5. If $0 < x < y < z$, then

Col A: Mean of x, y, z

Col B: Median of x, y, z

6. If P1, P2 pipes together can fill a tank in 8 hrs and P3 pipe can fill in 12 hrs, then how much time will P1, P2 and P3 together take to fill the tank?

Admin,
drrajusgre.com

2.)C

4.)8V

5.)D

Quant:

1. If $0 < x < y < z$, then

Col A: x/y

Col B: y/z

Ans: D

2. If a cab-for-hire company costs \$1.75 for the first quarter mile and fifteen cents for each additional quarter mile, what is the maximum distance you can travel with \$4.90?

Ans: 5.5miles

3. If a person A takes 4hrs to complete a job and person B takes 6hrs to complete the same job, & if they work together, then how much time will they require to complete the work?

Ans: 2.4hrs

4. Given a series 7, 8, 13, 13, 9, 14, 15, 15, 15, 19. If another number 15 is included in the series, then which is affected?

- A. Mean
- B. Median
- C. Mode
- D. None

Ans: B

5. If $x, y > 0$ and $x - y = 1$, then

Col A: $x^2 - y^2$

Col B: 0

Ans: A

6. If a number 'n' is divided by 24, the remainder is 21. Which of the following is the divisor of n?

- A. 3
- B. 5
- C. 6
- & so on....

Ans: A

7. Given a circle with center 'O' and with two tangents at points 'B' and 'C' which intersect each other at point 'A'. If angle BAC is given as 55 degrees, then

Col A: The value of angle BOC

Col B: xxx(some angle)

Ans: Angle BOC = 125 degrees

Admin,
drrajusgre.com

7q. angle boc $55 \times 2 = 110$
please correct me

Quant:

1. If $0 < x < y < z$, then

Col A: x/y

Col B: y/z

2. If a cab-for-hire company costs \$1.75 for the first quarter mile and fifteen cents for each additional quarter mile, what is the maximum distance you can travel with \$4.90?

3. If a person A takes 4hrs to complete a job and person B takes 6hrs to complete the same job, & if they work together, then how much time will they require to complete the work?

4. Given a series 7, 8, 13, 13, 9, 14, 15, 15, 15, 19. If another number 15 is included in the series, then which is affected?

- A. Mean
- B. Median
- C. Mode
- D. None

5. If $x, y > 0$ and $x - y = 1$, then

Col A: $x^2 - y^2$

Col B: 0

6. If a number 'n' is divided by 24, the remainder is 21. Which of the following is the divisor of n?

A. 3

B. 5

C. 6

& so on....

7. Given a circle with center 'O' and with two tangents at points 'B' and 'C' which intersect each other at point A, angle BAC is given as 55 degrees, then

Col A: The value of angle BOC

Col B: xxx(some angle)

Admin,
drrajusgre.com

1. If the area of a square is 24sq.m, then

Col A: Length of the side

Col B: Length of the diagonal

Ans: B

2. Col A: 100^2

Col B: 2^{100}

Ans: B

3. The remainder when 23 is divided by n is 2, then

Col A: n

Col B: 8

Ans: D

4. Col A: 10^{30}

Col B: $0.001^{(-10)}$

Ans: C

5. A company sold a product for 'x' dollars in 1990. If the price of product increases by 2.5% every year, what is the price of the product in the year 2000?

Ans: $x \cdot (1.025)^{10}$

6. A salesman gets 12% commission on the sales up to \$500 and he gets 20% commission on the remaining amount on that day. If the salesman's total commission is \$380 on that day, then how much amount was sold on that day?

that day?
Ans: 2100\$

Admin,
drrajusgre.com

Quant:

1. If the area of a square is 24sq.m, then
Col A: Length of the side
Col B: Length of the diagonal

2. Col A: 100^2
Col B: 2^{100}

3. The remainder when 23 is divided by n is 2, then
Col A: n
Col B: 8

4.Col A: 10^{30}
Col B: $0.001^{(-10)}$

5. A company sold a product for 'x' dollars in 1990. If the price of product increases by 2.5% every year, the price of the product in the year 2000?

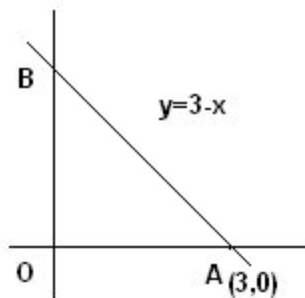
6. A salesman gets 12% commission on the sales up to \$500 and he gets 20% commission on the further sales on that day. If the salesman's total commission is \$380 on that day, then how much amount did he sell on that day?

Admin,
drrajusgre.com

Quant:

1. If $x > 0$ and $y > 0$, then
Col A: \sqrt{xy}
Col B: $\sqrt{x+y}$
Ans: D

2.



Col A: Perimeter of the triangle AOB

Col B: some value(xxx)

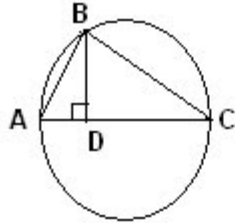
(Something like this)

Ans: $3[\sqrt{2}+2]$

3.The value of $10^{15} - 10^{14} / 10^3$ is

Ans: $9 \cdot 10^{11}$

4.



If the circumference of the circle is 4π and if the area of the triangle is 2, then

Col A: Length of BD

Col B: some value(xx)

(Similar to this)

Ans: 1

5.If the number of experienced people in an office is 7% , then

Col A: The total number of people in the office

Col B: 100

Ans: D

6.Col A: Area of the rectangle whose length is 4m and perimeter is 14m

Col B: Area of rectangle having length 5m and breadth 3m

Ans: B

7.If $t^2 + 6t + 9 = 0$, then

Col A: t

Col B: -3

Ans: C

8.If the probability of A wins the race is $\frac{1}{5}$ and 'B' wins the race is $\frac{1}{8}$, then what is the probability the n wins the race?

Ans: $\frac{7}{10}$

9. Given a series $f_1, f_2, f_3, f_4, \dots, f_n$, such that every number is sum of its two previous numbers. If $f_5 = 76$, then what is the value of f_9 ?

Ans: 123

Admin,
drrajusgre.com

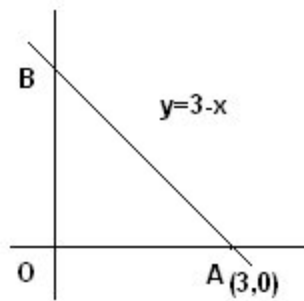
Quant:

1. If $x > 0$ and $y > 0$, then

Col A: \sqrt{xy}

Col B: $\sqrt{x+y}$

2.



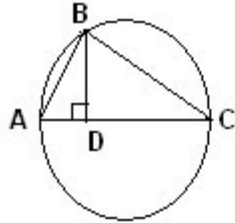
Col A: Perimeter of the triangle AOB

Col B: some value(xxx)

(Something like this)

3. The value of $10^{15} - 10^{14} / 10^3$ is

4.



If the circumference of the circle is 4π and if the area of the triangle is 2, then

Col A: Length of BD

Col B: some value(xx)

(Similar to this)

5.If the number of experienced people in an office is 7% , then

Col A: The total number of people in the office

Col B: 100

6.Col A: Area of the rectangle whose length is 4m and perimeter is 14m

Col B: Area of rectangle having length 5m and breadth 3m

7.If $t^2 + 6t + 9 = 0$, then

Col A: t

Col B: -3

8.If the probability of A wins the race is $\frac{1}{5}$ and 'B' wins the race is $\frac{1}{8}$, then what is the probability the n wins the race?

9.Given a series $f_1, f_2, f_3, f_4, \dots, f_n$, such that every number is sum of its two previous numbers. If $f_5 = 76$, then what is the value of f_9 ?

Admin,

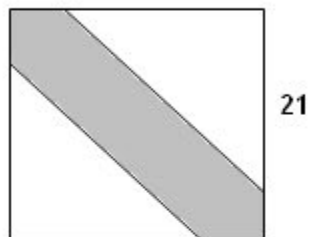
drrijusgre.com

Quant:

1.If 'C' apples cost 'x' cents, then how many apples could be bought for 'd' dollars?

Ans: $C*d*100/x$

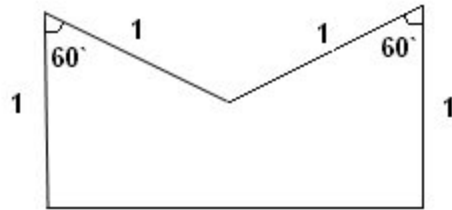
2.



If the length of the side of the square is 21, then find the area of the shaded region?

Ans: To the given data, it cannot be determined.

3.



Find the length of the base?

Ans: $\sqrt{3}$

4.If $0 < x < 1$ and $x^2 \cdot y^2 = 3$, then

Col A: $x + y$

Col B: 3

Ans: D

5. $4 - (1/129) / 2 - (1/89) =$

A. $2/5$

B. $4/5$

C. $3/8$

D. $7/3$

& so on.....

Answer is some around near to option 'D'

6. Given the present age of person 'X' is twice the age of person 'Y'. If the ratio of their ages 5 years hence

is the difference between their present ages?

Ans: 20

7.If a number 'n' is divided by 24, the remainder is 21. Which of the following is the divisor of n?

A. 3

B. 4

C. 5

D.6

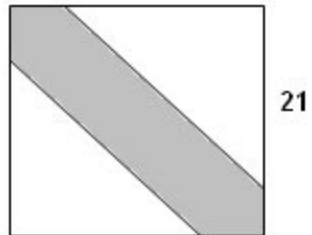
E. 7

Ans: A

Quant:

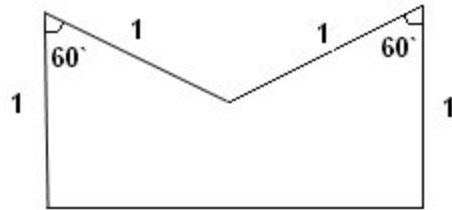
1.If 'C' apples cost 'x' cents, then how many apples could be bought for 'd' dollars?

2.



If the length of the side of the square is 21, then find the area of the shaded region?

3.



Find the length of the base?

4.If $0 < x < 1$ and $x^2 \cdot y^2 = 3$, then

Col A: $x + y$

Col B: 3

5. $4 - (1/129) / 2 - (1/89) =$

A.2/5

B.4/5

C.3/8

D. 7/3

& so on.....

6.Given the present age of person 'X' is twice the age of person 'Y'. If the ratio of their ages 5 years hence is the difference between their present ages?

7.If a number 'n' is divided by 24, the remainder is 21. Which of the following is the divisor of n?

- A. 3**
- B. 4**
- C. 5**
- D.6**
- E. 7**

Admin,
drrajusgre.com

- 1. If $0 < t < u < v$, then**
Col A: Mean of t, u, v
Col B: Median of t, u, v
Ans: D

- 2. Given the average of seven numbers as 35. When 'k' is added to it then the average of those 8 is value of k?**
Ans: 35

- 3. Given a series $a_1, a_2, a_3, \dots, a_n$. If $a_n = (1/n) - (1/(n+1))$, then find the value of S_{100} ?**
Ans: 100/101

- 4. Given $|x| = |y|$ & $xy < 0$**
Col a : $x+y$
Col b : 0
Ans: C

- 5. Given a Rectangular cylinder with volume 1800. If the height of rectangular cylinder is 6 times m radius then find the radius of the cylinder?**
Ans: cube root(1800/22)

- 6. Given stock price at end of February as x. If stock price increase in March is 10% & increase in April is 20% and if May price = 70% of April price, then**
Col A: The May price
Col B: $0.9x$
Ans: B

Admin,
drrajusgre.com

Quant:

- 1. If $0 < t < u < v$, then**
Col A: Mean of t, u, v

Col B: Median of t, u, v

2. Given the average of seven numbers as 35. When 'k' is added to it then the average of those 8 is 35. Find

3. Given a series $a_1, a_2, a_3, \dots, a_n$. If $a_n = (1/n) - (1/(n+1))$, then find the value of S_{100} ?

4. Given $|x| = |y|$ & $xy < 0$

Col a : $x+y$

Col b : 0

5. Given a Rectangular cylinder with volume 1800. If the height of rectangular cylinder is 6 times more than the radius, find the radius of the cylinder?

6. Given stock price at end of February as x. If stock price increase in March is 10% & increase in April is a May price = 70% of April price, then

Col A: The May price

Col B: $0.9x$

Admin,
drrajusgre.com

Quant:

1. $10^5 * 10^4 / 10^3 =$

A. 10^{10}

B. 10^7

C. 10^6

D. 10^3

& so on....

Ans: C

2. Given a series.

1, $1/(2t)$, $1/(2)^{2*t}$, $1/(2)^{2*(t)^2}$

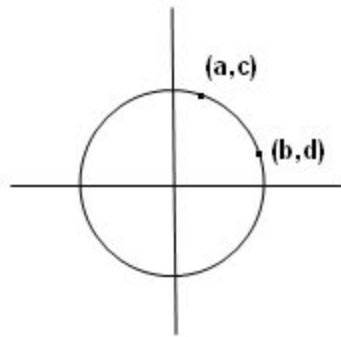
For $t=2$, if odd terms are $1/2$ times the previous number and even terms are $1/(t)$ times the previous number

Col A: The eight term (8th) in the series

Col B: $1/(2)^8$

Ans: C

3.



Col A: $a+d$

Col B: $b+c$

Abs: D

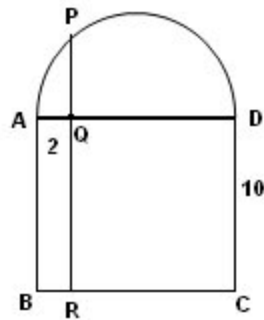
4. Given two points $P(4,2)$ & $Q(3,3)$.

Col A: Distance of point 'P' from origin

Col B: Distance of point 'Q' from origin

Ans: A

5.



In the figure above, it is a semicircle drawn on a square of side length 10m. And now, find the length of PR

Ans: 14

6. If $(x-5)(2x+1) - (x-5)(x-7) = 0$, then what is the least possible value of 'x'?

Ans: -8

7. Find the surface area of a cuboid of length 6ft, width $\frac{1}{6}$ ft and height $\frac{1}{3}$ ft?

Ans: 6.11

8. In a contest, there are 5 judges who are to rate (they can rate from 0-10) the scores of 8 different groups.

Category Scores

Solo 14

Group 17

xxxx 25

xxxx 29

xxxx 31

xxxx 35

xxxx 44

xxxx 49

What is the minimum number of teams, which must get 7 or more than 7 score from at least one judge?
(Similar to this)

Ans: 4

9. In a company 'X', if the average arithmetic mean of number of years of experience, for men is 8.5 years and for women is 7.5 years and for the total employees is 7.9 years, then

Col A: Number of men in the company

Col B: Number of women in the company

Ans: B

Admin,
drrajusgre.com

Last edited by admin on Tue Mar 24, 2009 2:44 pm; edited 1 time in total

Soln to Q 2 -----

1(odd term), $1/2t$ (even term), $1/(2 \cdot 2t)$ (odd term), $1/(2 \cdot 2t^2)$ (even term)

Now,

5th term - $1/(2 \cdot 2 \cdot 2t^2) = 1/(8 \cdot t^2)$

6th term - $1/(8 \cdot t \cdot t^2) = 1/(8 \cdot t^3)$

7th term - $1/(16 \cdot t^3)$

8th term - $1/(16 \cdot t^4) = 1/(2^4 \cdot 2^4)$ as $t=2$. $= 1/2^8$

Quant:

1. $10^5 * 10^4 / 10^3 =$

A. 10^{10}

B. 10^7

C. 10^6

D. 10^3

& so on....

2. Given a series.

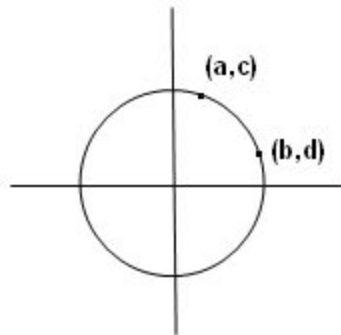
1, $1/(2t)$, $1/(2)^{2*t}$, $1/(2)^{2*(t)^2}$

For $t=2$, if odd terms are $1/2$ times the previous number and even terms are $1/(t)$ times the previous num

Col A: The eight term (8th) in the series

Col B: $1/(2)^8$

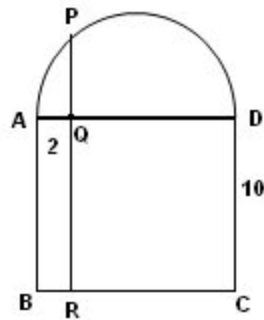
3.



Col A: $a+d$
Col B: $b+c$

4. Given two points $P(4,2)$ & $Q(3,3)$.
Col A: Distance of point 'P' from origin
Col B: Distance of point 'Q' from origin

5.



In the figure above, it is a semicircle drawn on a square of side length 10m. And now, find the length of PR

6. If $(x-5)(2x+1) - (x-5)(x-7) = 0$, then what is the least possible value of 'x'?

7. Find the surface area of a cuboid of length 6ft, width $\frac{1}{6}$ ft and height $\frac{1}{3}$ ft?

8. In a contest, there are 5 judges who are to rate (they can rate from 0-10) the scores of 8 different groups.

Category Scores

Solo 14

Group 17

xxxx 25

xxxx 29

xxxx 31

xxxx 35

xxxx 44

xxxx 49

What is the minimum number of teams, which must get 7 or more than 7 score from at least one judge?
(Similar to this)

9. In a company 'X', if the average arithmetic mean of number of years of experience, for men is 8.5 years and for women is 7.5 years and for the total employees is 7.9 years, then

Col A: Number of men in the company

Col B: Number of women in the company

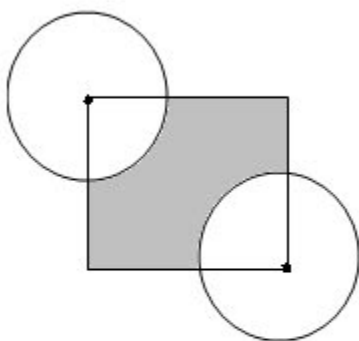
Admin,
drrajusgre.com

Quant:

1.What is the median of the series 10, 10, 8, 8, 8, 11, 11, 11?

Ans: 10

2.



If the side length of the square is 5 & radius of the circle is 3, then what is the area of the shaded region?

Ans: 10.85

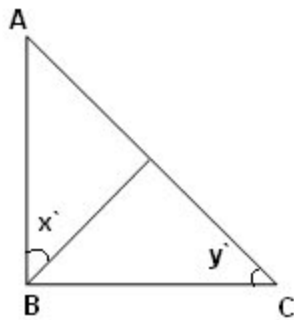
3.If $0 < x < y < z$, then

Col A: x/y

Col B: y/z

Ans: D

4.



Col A: x

Col B: y

Ans: D

5.If $0 < x < 4$, then

Col A: x^3

Col B: x^2

Ans: D

6.If 'A' takes 6 days to complete a work and 'B' takes 8 days to complete the same work, then how days it work together?

Ans: $3\frac{3}{7}$ (or) 3.4days

7.In set of numbers 1, 2, 3, 4, 5 & 6, if two numbers are selected at random, then what is the probability of sum '8'?

Ans: $\frac{2}{15}$

8.When 'K' is divided by 3, the remainder is '1' and when 'K+1' is divided by 5, the remainder is '0', then what is the possible value of 'K'?

A.60

B.61

C.62

D.63

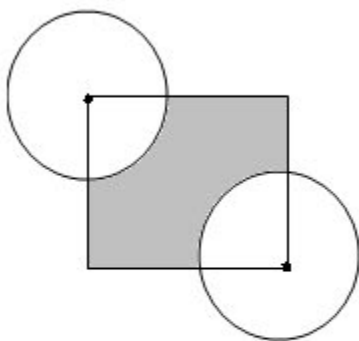
E.64

Ans: E

Quant:

1.What is the median of the series 10, 10, 8, 8, 8, 11, 11, 11?

2.



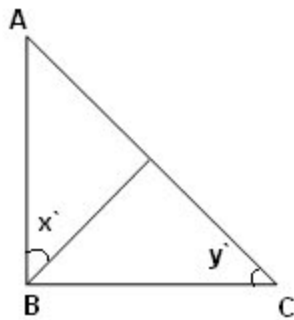
If the side length of the square is 5 & radius of the circle is 3, then what is the area of the shaded region?

3.If $0 < x < y < z$, then

Col A: x/y

Col B: y/z

4.



Col A: x
Col B: y

5.If $0 < x < 4$, then
Col A: x^3
Col B: x^2

6.If 'A' takes 6 days to complete a work and 'B' takes 8 days to complete the same work, then how days it work together?

7.In set of numbers 1, 2, 3, 4, 5 & 6, if two numbers are selected at random, then what is the probability of sum '8'?

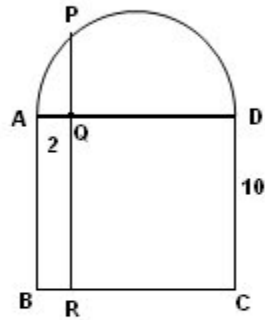
8.When 'K' is divided by 3, the remainder is '1' and when 'K+1' is divided by 5, the remainder is '0', then what is the possible value of 'K'?

- A.60
- B.61
- C.62
- D.63
- E.64

Admin,
drrajusgre.com

Quant:

1.



Find the length of the line segment PQR?

Ans: 14

2.A man buys 'W'kgs of dog food once in a week and 'x'kgs of the food is given to each dog twice a day.

Col A: Number of dogs

Col B: $W/7x$

Ans: C

3.If $(x - y) = \text{odd value}$ and K is an integer, which of the following is always odd?

A. x

B. y

C. $k(x-y)$

D. $(x-y)^2$

E. $(x-y+k)$

Ans: D

4.If $x < y < z$, then

Col A: xy

Col B: yz

Ans: D

5.Given that the time taken by a train to travel a distance 'd' is 'h'hrs and the next day the train travels the same distance but reaches 15 min early. What is the average speed on that day?

Ans: $4d/(4h-1)$

6. A price of a product 'x' is increased by p% to give new price 'y' and then price of 'y' is reduced by r% to give price.

Col A: p

Col B: r

Ans: A

7. Given a sequence a_1, a_2, \dots, a_n . If $a_1 = 25$ & in the sequence if every number is '-2' times the preceding

Col A: a_{100}

Col B: -10,000

Ans: B

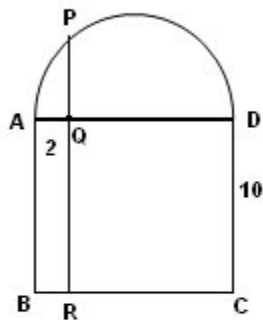
Admin,
drrajusgre.com

6. is simple $d=st$..so $s=d/t$ for 1st dayand then next day $s=(d)/(t-15/60)$...implies $s=4d/4t-1$...

can ny1 xplain last q....plz

Quant:

1.



Find the length of the line segment PQR?

2. A man buys 'W' kgs of dog food once in a week and 'x' kgs of the food is given to each dog twice a day.

Col A: Number of dogs

Col B: $W/7x$

3. If $(x - y) = \text{odd value}$ and K is an integer, which of the following is always odd?

A. x

B. y

C. $k(x-y)$

D. $(x-y)^2$

E. $(x-y+k)$

4. If $x < y < z$, then

Col A: xy

Col B: yz

5. Given that the time taken by a train to travel a distance 'd' is 'h' hrs and the next day the train travels the same distance but reaches 15 min early. What is the average speed on that day?

6. A price of a product 'x' is increased by p% to give new price 'y' and then price of 'y' is reduced by r% to give price 'z'. What is the final price 'z'?

Col A: p

Col B: r

7. Given a sequence a_1, a_2, \dots, a_n . If $a_1 = 25$ & in the sequence if every number is '-2' times the preceding number, then what is the value of a_n ?

Col A: 100

Col B: -10,000

Admin,
drrajusgre.com

Quant:

1. If $xy > 0$, then

Col A: $x^4 * y^3$

Col B: 0

Ans: D

2. If $x \neq 0$, then

Col A: $(x/2)^2$

Col B: $x^2/2$

Ans: B

3. Given the average of a set of 7 numbers as 45. If 2 numbers are removed from the set, then the average becomes 40. Find the average of removed numbers (two)?

Ans: 57.5

4. Given a set of four values.

12, 13, 14, 15.

Which of the following operations can be done, such that the arithmetic mean of the set can be altered and deviation of the set cannot be altered?

A. Adding 11 to each number in the set

B. Multiplying 2 to each number in the set

C. Dividing each number in the set by 3

D. Addition of 20 in the set

E. Replacing 15 in the set by 20.

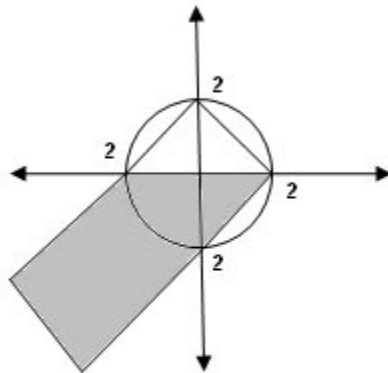
Ans: A

5. Col A: $(\sqrt{30} - \sqrt{13})^3$

Col B: $\sqrt{30} - \sqrt{13}$

Ans: A

6.



If the area of the rectangle is 12, then what is the area of the shaded region?

Ans: 8

7. A cylinder 'A' has height 2 and radius 3 and another cylinder 'B' has the height and radius twice that of 'A'

Col A: Twice the volume of cylinder 'A'

Col B: Volume of cylinder 'B'

Ans: B

Admin,

drrijusgre.com

Quant:

1. If $xy > 0$, then

Col A: $x^4 * y^3$

Col B: 0

2. If $x \neq 0$, then

Col A: $(x/2)^2$

Col B: $x^2/2$

3. Given the average of a set of 7 numbers as 45. If 2 numbers are removed from the set, then the average becomes 40. Find the average of removed numbers (two)?

4. Given a set of four values.

12, 13, 14, 15.

Which of the following operations cannot be done, such that the arithmetic mean of the set can be altered deviation of the set cannot be altered?

A. Adding 11 to each number in the set

B. Multiplying 2 to each number in the set

C. Adding 3 to each number in the set

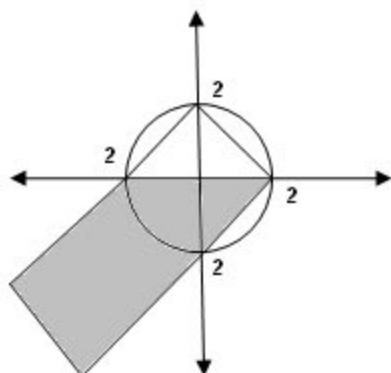
D. Addition of 20 to each number in the set

E. Replacing 15 in the set by 20.

5. Col A: $(\sqrt{30} - \sqrt{13})^3$

Col B: $\sqrt{30} - \sqrt{13}$

6.



If the area of the rectangle is 12, then what is the area of the shaded region?

7. A cylinder 'A' has height 2 and radius 3 and another cylinder 'B' has the height and radius twice that of 'A'

Col A: Twice the volume of cylinder 'A'

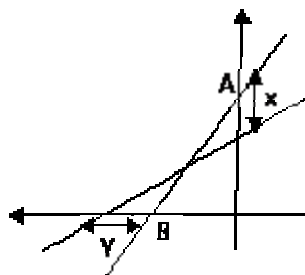
Col B: Volume of cylinder 'B'

Admin,
drrajusgre.com

1.If a , b and c are 0, 1 or 2 and if $a.32+ b.3 + c = 25$, then what is the possible value of $a + b + c$?

2.In a survey of voting in a election, if 55% of the voters who casted their votes supported person 'x' , 61% supported person 'y', then what percentage of people supported neither 'x' nor 'y'?

3.



When point 'A' is displaced by 'x', point 'B' is displaced by 'y'.

Col A: x

Col B: y

4.If $n > 0$, then

Col A: $x n+1$

Col B: $(x+1)n$

5. If a rectangle of length 4 and breadth 3 is divided into two smaller rectangles, then

Col A: Sum of perimeters of both the rectangles

Col B: 21

6. There are five lists of 25 members. If average of 25 members in each list is a_1, a_2, a_3, a_4 and a_5 and median is m_1, m_2, m_3, m_4, m_5 , then

Col A: Median of a_1, a_2, a_3, a_4, a_5

Col B: Average of m_1, m_2, m_3, m_4, m_5 .

7.

If perimeter of the circle is 16π , then what is perimeter of the shaded region?

8. If a number, when divided by 5 gives remainder 3 and when divided by 4 gives remainder 2, then what is the remainder when the same number is divided by 10?

9.Which of the following products (of two numbers) is equal to 2400?

A. 250.0×10.4

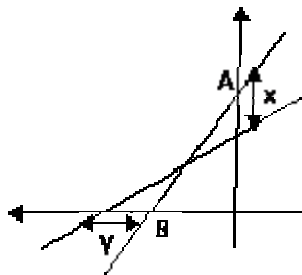
Similar 4 options were given.

10. Given surface area of a cube and asked to find volume of a cube?

1.If a, b and c are 0, 1 or 2 and if $a.32+ b.3 + c = 25$, then what is the possible value of $a + b + c$?

2.In a survey of voting in a election, if 55% of the voters who casted their votes supported person 'x' , 61% supported person 'y', then what percentage of people supported neither 'x' nor 'y'?

3.



When point 'A' is displaced by 'x', point 'B' is displaced by 'y'.

Col A: x

Col B: y

4.If $n > 0$, then

Col A: $x n+1$

Col B: $(x+1)n$

5. If a rectangle of length 4 and breadth 3 is divided into two smaller rectangles, then

Col A: Sum of perimeters of both the rectangles

Col B: 21

6. There are five lists of 25 members. If average of 25 members in each list is a_1, a_2, a_3, a_4 and a_5 and median is m_1, m_2, m_3, m_4 and m_5 , then

Col A: Median of a_1, a_2, a_3, a_4, a_5

Col B: Average of m_1, m_2, m_3, m_4, m_5 .

7.

[img]

http://www.drrajusgre.com/images/09/09/quant_database/may/quest_7_may_21_quant.jpg

If perimeter of the circle is 16π , then what is perimeter of the shaded region?

8. If a number, when divided by 5 gives remainder 3 and when divided by 4 gives remainder 2, then what is the remainder when the same number is divided by 10?

9. Which of the following products (of two numbers) is equal to 2400?

A. 250.0×10.4

Similar 4 options were given.

10. Given surface area of a cube and asked to find volume of a cube?

